

[MS-RDPRFX-Diff]:

Remote Desktop Protocol: RemoteFX Codec Extension

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1 Introduction

The Remote Desktop Protocol: RemoteFX Codec Extension is an extension to the Remote Desktop Protocol: Basic Connectivity and Graphics Remoting (as specified in [MS-RDPBCGR]). The RemoteFX Codec Extension specifies a lossy image codec that can be used to encode screen images by using efficient and effective compression.

Sections 1.5, 1.8, 1.9, 2, and 3 of this specification are normative. All other sections and examples in this specification are informative.

1.1 Glossary

This document uses the following terms:

blit: Also known as block image transfer. An operation in which a rectangular block of pixels in a source image is copied onto a destination image.

discrete wavelet transform (DWT): A mathematical procedure that can be used to derive a discrete representation of a signal.

entropy coding: A lossless data compression scheme used to generate compression codes for input symbols based on their statistical properties.

inverse discrete wavelet transform (IDWT): A mathematical procedure that can be used to reconstruct a signal without loss of information.

little-endian: Multiple-byte values that are byte-ordered with the least significant byte stored in the memory location with the lowest address.

quantization: A technique used to reduce a range of values to a single representative value.

tile-based transform: A transform technique in which an input image is segmented into a grid of disjoint tiles and the transform is then applied separately to each individual tile.

YCbCr color space: A color space where each color is represented as a triplet (Y,Cb,Cr), where Y stands for the Luma (brightness) component and Cb,Cr stand for the two Chroma (color) components.

MAY, SHOULD, MUST, SHOULD NOT, MUST NOT: These terms (in all caps) are used as defined in [RFC2119]. All statements of optional behavior use either MAY, SHOULD, or SHOULD NOT.

1.2 References

Links to a document in the Microsoft Open Specifications library point to the correct section in the most recently published version of the referenced document. However, because individual documents in the library are not updated at the same time, the section numbers in the documents may not match. You can confirm the correct section numbering by checking the Errata.

1.2.1 Normative References

We conduct frequent surveys of the normative references to assure their continued availability. If you have any issue with finding a normative reference, please contact dochelp@microsoft.com. We will assist you in finding the relevant information.

[ARLGR] Malvar, H.S., "Adaptive Run-Length / Golomb-Rice Encoding of Quantized Generalized Gaussian Sources with Unknown Statistics", Proceedings of the Data Compression Conference, 2006 (DCC 2006) pp. 23 - 32, March 2006, <http://ieeexplore.ieee.org/stamp/stamp.jsp?arnumber=1607237>

[MS-RDPBCGR] Microsoft Corporation, "Remote Desktop Protocol: Basic Connectivity and Graphics Remoting".

[MS-RDPEGDI] Microsoft Corporation, "Remote Desktop Protocol: Graphics Device Interface (GDI) Acceleration Extensions".

[MS-RDPNSC] Microsoft Corporation, "Remote Desktop Protocol: NSCodec Extension".

[RFC2119] Bradner, S., "Key words for use in RFCs to Indicate Requirement Levels", BCP 14, RFC 2119, March 1997, <http://www.rfc-editor.org/rfc/rfc2119.txt>

[T123] ITU-T, "Network-Specific Data Protocol Stacks for Multimedia Conferencing", Recommendation T.123, May 1999, <http://www.itu.int/rec/T-REC-T.123/en>

Note There is a charge to download the specification.

[T125] ITU-T, "Multipoint Communication Service Protocol Specification", Recommendation T.125, February 1998, <http://www.itu.int/rec/T-REC-T.125-199802-I/en>

Note There is a charge to download the specification.

[X224] ITU-T, "Information technology - Open Systems Interconnection - Protocol for Providing the Connection-Mode Transport Service", Recommendation X.224, November 1995, <http://www.itu.int/rec/T-REC-X.224-199511-I/en>

Note There is a charge to download the specification.

1.2.2 Informative References

None.

1.3 Protocol Overview (Synopsis)

The Remote Desktop Protocol: RemoteFX Codec Extension reduces the bandwidth associated with desktop remoting by efficiently compressing images. This is achieved by using the RemoteFX codec. The following sections provide an overview of this codec.

1.3.1 RemoteFX Codec

One of the core requirements of desktop remoting is the ability to efficiently compress server-side screen images so that they can be transported over a network and displayed on a client screen. Any codec used for this purpose needs to be able to deliver effective compression (to reduce network bandwidth requirements) and operate with low-latency (to enable efficient interactions with remoted content). A typical desktop screen contains textual content (synthetic images) along with video and photographic content (natural images). Given the sensitivity of the human eye to the sharp features present in textual content, any applied compression has to be visually lossless; otherwise the text will appear blurred.

The RemoteFX codec has been designed to achieve efficient compression, satisfying the goals of high quality and low latency while using a modest amount of computing resources. It is a tile-based transform codec. The transform chosen was a discrete wavelet transform (DWT) because it enables superior compression performance when compressing textual bitmap regions at high quality. The entropy coding is performed using the Run-Length Golomb-Rice Coder (RLGR) ([ARLGR] section 3), which yields compression gains at relatively low computing requirements. The core functional blocks of the RemoteFX codec are shown in the following diagram.

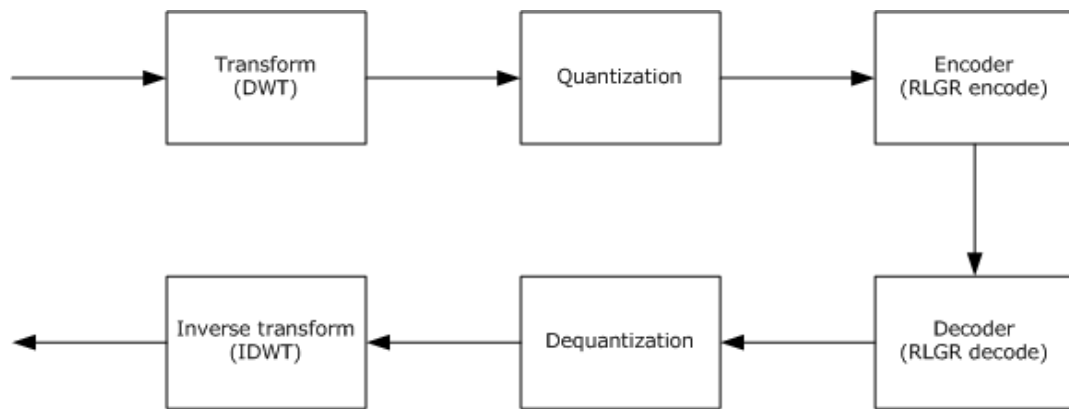


Figure 1: Core functional blocks of the RemoteFX codec

1.3.1.1 Message Flows

RemoteFX codec messages are transported in order over a lossless transport such as TCP/IP. The message syntax has been designed with this prerequisite.

There are two types of messages: (1) capability messages sent from the client to the server; and (2) encode stream messages sent from the server to the client. The encode stream messages can be broadly categorized as header or data messages. The syntax of each message is described in detail in section 2. Processing events and sequencing rules are described in section 3.

The message sequence is depicted in the following diagram. Note that the messages in this diagram are encapsulated in RDP wire structures (described in [MS-RDPBCGR] section 2.2) when sent on the wire – for the sake of simplicity only the RemoteFX messages are shown. The encapsulating RDP structures are referenced in sections 2 and 3 when describing the structure and processing of the RemoteFX messages.

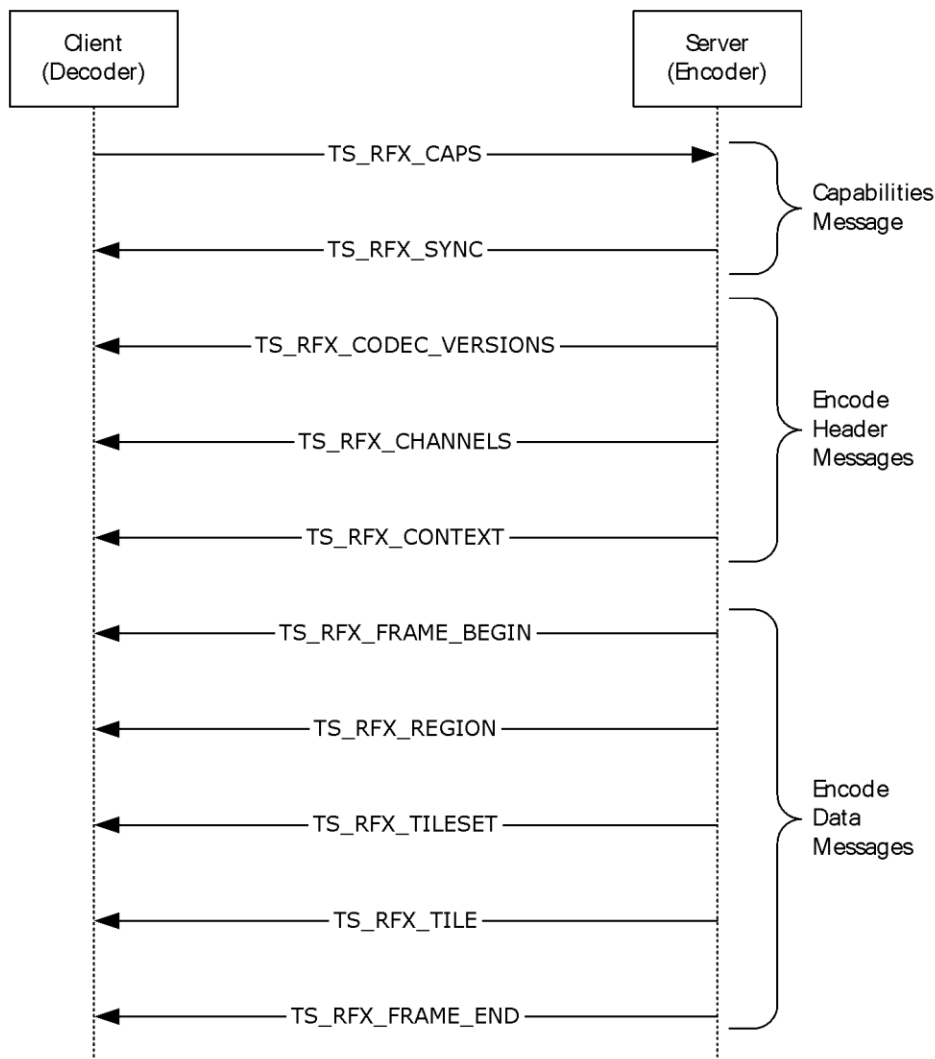


Figure 2: The RemoteFX message sequence

The client initiates the session by sending a TS_RFX_CAPS Capabilities message (section 2.2.1.1). This is the only message sent from the client to the server; it lists the client-side support and preferences for various RemoteFX codec properties.

The server initializes its encoding state based on the client Capabilities message. It starts the encoding stream (section 2.2.2) by sending a sequence of Header Messages (section 2.2.2.2) that inform the client of the RemoteFX properties selected by the server:

1. The TS_RFX_SYNC message (section 2.2.2.2.1) contains the RemoteFX magic number and the version of the wire format.
2. The TS_RFX_CODEEC_VERSIONS message (section 2.2.2.2.2) contains the version of the RemoteFX codec.
3. The TS_RFX_CHANNELS message (section 2.2.2.2.3) lists the channel or multi-monitor information.
4. The TS_RFX_CONTEXT message (section 2.2.2.2.4) contains the encoding properties of the stream.

The header messages are followed by the Data messages (section 2.2.2.3), which represent the sequence of encoded frames in the stream:

1. The TS_RFX_FRAME_BEGIN and TS_RFX_FRAME_END messages (sections 2.2.2.3.1 and 2.2.2.3.2 respectively) are used to demarcate an encoded frame.
2. The TS_RFX_REGION message (section 2.2.2.3.3) contains the list of rectangles that have been encoded.
3. The TS_RFX_TILESET message (section 2.2.2.3.4) encapsulates the list of tiles that have been encoded.

1.4 Relationship to Other Protocols

This protocol extends the Remote Desktop Protocol: Basic Connectivity and Graphics Remoting [MS-RDPBCGR] by adding advanced compression techniques.

1.5 Prerequisites/Preconditions

The following capabilities are mandatory when used with RemoteFX:

- The client MUST support fast-path graphics output ([MS-RDPBCGR] section 2.2.9.1.2) and acknowledge this support by specifying the FASTPATH_OUTPUT_SUPPORTED (0x0001) flag in the General Capability Set ([MS-RDPBCGR] section 2.2.7.1.1).
- The client MUST send the Multiframe Update Capability Set ([MS-RDPBCGR] section 2.2.7.2.6). The **MaxRequestSize** field in the client-to-server Multiframe Update Capability Set MUST be set to a value greater than or equal to the value in the **MaxRequestSize** field of the server-to-client Multiframe Update Capability Set. The client-to-server Multiframe Update Capability Set is transported in the Confirm Active PDU as specified in [MS-RDPBCGR] section 2.2.1.13.2, and the server-to-client Multiframe Update Capability Set is transported in the Demand Active PDU as specified in [MS-RDPBCGR] section 2.2.1.13.1.
- The client MUST send the Large Pointer Capability Set ([MS-RDPBCGR] section 2.2.7.2.7) and the LARGE_POINTER_FLAG_96x96 (0x00000001) MUST be present in the **largePointerSupportFlags** field.
- If the Revision 2 Bitmap Cache Capability Set ([MS-RDPBCGR] section 2.2.7.1.4.2) is sent by the client, then the ALLOW_CACHE_WAITING_LIST_FLAG (0x0002) MUST be present in the **CacheFlags** field.
- The client MUST support the Stream Surface Bits Surface Command ([MS-RDPBCGR] section 2.2.9.2.2). Support for this surface command MUST be advertised in the Surface Commands Capability Set ([MS-RDPBCGR] section 2.2.7.2.9).
- The client MUST support a color depth of 32 bits per pixel. This means that the RNS_UD_32BPP_SUPPORT (0x0008) flag must be set in the **supportedColorDepths** field of the Client Core Data structure ([MS-RDPBCGR] section 2.2.1.3.2).
- The client MUST support either the NSCodec Bitmap Codec ([MS-RDPNSC] sections 2 and 3) or the Planar Codec ([MS-RDPEGDI] sections 2.2.2.5.1 and 3.1.9) to handle server fallback scenarios.

The TS_FRAME_ACKNOWLEDGE_CAPABILITYSET (section 2.2.1.3) SHOULD<1> be sent by the client. Furthermore, if the **connectionType** field of the Client Core Data ([MS-RDPBCGR] section 2.2.1.3.2) is set to any value other than CONNECTION_TYPE_LAN (0x06), then the RemoteFX server SHOULD NOT<2> indicate that the RemoteFX codec is supported, that is, none of the TS_BITMAPCODEC ([MS-RDPBCGR] section 2.2.7.2.10.1.1) structures included in the **bitmapCodecArray** field of the TS_BITMAPCODECS ([MS-RDPBCGR] section 2.2.7.2.10) structure have the **codecGUID** field set to CODEC_GUID_REMOTEFX.

1.6 Applicability Statement

This protocol is applicable in situations in which it is necessary to optimize the bandwidth required for graphics remoting. The advanced compression techniques specified in this document enable the efficient transfer of server-side images and video.

1.7 Versioning and Capability Negotiation

This protocol builds on the basic Remote Desktop Protocol [MS-RDPBCGR]. The features provided by this extension are negotiated during the capabilities negotiation phase of the RDP connection sequence (see [MS-RDPBCGR] section 1.3.1.1). In effect, this extension merely expands the set of capabilities used by the base RDP. (RDP versioning and capability negotiation is described in [MS-RDPBCGR] section 1.7.)

Some capabilities, which are specified as optional in [MS-RDPBCGR] section 2.2.7.2, are mandatory when used with RemoteFX. These capabilities are described in detail in section 2.1.

1.8 Vendor-Extensible Fields

None.

1.9 Standards Assignments

None.

2 Messages

2.1 Transport

This protocol is an extension to the Remote Desktop Protocol: Basic Connectivity and Graphics Remoting Specification and all packets are tunneled within the RDP transport ([MS-RDPBCGR] section 2.1).

2.2 Message Syntax

All multiple-byte fields within a message MUST be marshaled in little-endian byte order, unless otherwise specified.

2.2.1 Capabilities Messages

2.2.1.1 TS_RFX_CLNT_CAPS_CONTAINER

The TS_RFX_CLNT_CAPS_CONTAINER structure is the top-level client capability container that wraps a TS_RFX_CAPS (section 2.2.1.1.1) structure and is sent from the client to the server. It is encapsulated in the **codecProperties** field of the Bitmap Codec ([MS-RDPBCGR] section 2.2.7.2.10.1.1) structure, which is ultimately encapsulated in the Bitmap Codecs Capability Set ([MS-RDPBCGR] section 2.2.7.2.10), which is encapsulated in a client-to-server Confirm Active PDU ([MS-RDPBCGR] section 2.2.1.13.2).

0	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	1
length																															
captureFlags																															
capsLength																															
capsData (variable)																															
...																															

length (4 bytes): A 32-bit, unsigned integer. Specifies the combined size, in bytes, of the **length**, **captureFlags**, **capsLength**, and **capsData** fields.

captureFlags (4 bytes): A 32-bit, unsigned integer. A collection of flags that allow a client to control how data is captured and transmitted by the server.

Flag	Meaning
CARDP_CAPS_CAPTURE_NON_CAC 0x00000001	The client supports mixing RemoteFX data with data compressed by other codecs. The set of other codecs supported by the client will be negotiated using the Bitmap Codecs Capability Set ([MS-RDPBCGR] section 2.2.7.2.10).

capsLength (4 bytes): A 32-bit, unsigned integer. Specifies the size, in bytes, of the **capsData** field.

capsData (variable): A variable-sized field that contains a TS_RFX_CAPS (section 2.2.1.1.1) structure.

2.2.1.1.1 TS_RFX_CAPS

The TS_RFX_CAPS structure contains information about the decoder capabilities.

0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31
blockType																blockLen															
...																numCapsets															
capsetsData (variable)																															
...																															

blockType (2 bytes): A 16-bit, unsigned integer. Specifies the data block type. This field MUST be set to CBY_CAPS (0xCBC0).

blockLen (4 bytes): A 32-bit, unsigned integer. Specifies the combined size, in bytes, of the **blockType**, **blockLen**, and **numCapsets** fields. This field MUST be set to 0x0008.

numCapsets (2 bytes): A 16-bit, unsigned integer. Specifies the number of TS_RFX_CAPSET (section 2.2.1.1.1.1) structures contained in the **capsetsData** field. This field MUST be set to 0x0001.

capsetsData (variable): A variable-sized array of TS_RFX_CAPSET (section 2.2.1.1.1.1) structures. The structures in this array MUST be packed on byte boundaries. The **blockType** and **blockLen** fields of each TS_RFX_CAPSET structure identify the type and size of the structure.

2.2.1.1.1.1 TS_RFX_CAPSET

The TS_RFX_CAPSET structure contains the capability information specific to the RemoteFX codec. It contains a variable number of TS_RFX_ICAP (section 2.2.1.1.1.1.1) structures that are used to configure the encoder state.

0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31								
blockType																blockLen																							
...																codecId								capsetType															
...								numIcaps																icapLen															
...								icapsData (variable)																															
...																																							

blockType (2 bytes): A 16-bit, unsigned integer. Specifies the data block type. This field MUST be set to CBY_CAPSET (0xCBC1).

blockLen (4 bytes): A 32-bit, unsigned integer. Specifies the combined size, in bytes, of the **blockType**, **blockLen**, **codecId**, **capsetType**, **numIcaps**, **icapLen**, and **icapsData** fields.

codecId (1 byte): An 8-bit, unsigned integer. Specifies the codec ID. This field MUST be set to 0x01.

capsetType (2 bytes): A 16-bit, unsigned integer. This field MUST be set to CLY_CAPSET (0xCFC0).

numIcaps (2 bytes): A 16-bit, unsigned integer. The number of TS_RFX_ICAP structures contained in the **icapsData** field.

icapLen (2 bytes): A 16-bit, unsigned integer. Specifies the size, in bytes, of each TS_RFX_ICAP structure contained in the **icapsData** field.

icapsData (variable): A variable-length array of TS_RFX_ICAP (section 2.2.1.1.1.1.1) structures. Each structure MUST be packed on byte boundaries. The size of each TS_RFX_ICAP structure within the array is specified in the **icapLen** field.

2.2.1.1.1.1.1 TS_RFX_ICAP

The TS_RFX_ICAP structure specifies the set of codec properties that the decoder supports.

0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31
version																tileSize															
flags								colConvBits								transformBits								entropyBits							

version (2 bytes): A 16-bit, unsigned integer. Specifies the codec version. This field MUST be set to CLW_VERSION_1_0 (0x0100), to indicate protocol version 1.0.

tileSize (2 bytes): A 16-bit, signed integer. Specifies the width and height of a tile. This field MUST be set to CT_TILE_64x64 (0x0040), indicating that a tile is 64 x 64 pixels.

flags (1 byte): An 8-bit, unsigned integer. Specifies operational flags.

Flag	Meaning
CODEC_MODE 0x02	When this flag is set, it indicates that only image mode is supported by the decoder, and therefore, the codec MUST operate in image mode. When this flag is not set, it indicates that both the image mode and the video mode of the codec are supported by the decoder and the codec MUST operate in video mode.

When operating in image mode, the encode headers messages (section 2.2.2.2) MUST always precede an encoded frame. When operating in video mode, the header messages MUST be present at the beginning of the stream and are optional elsewhere.

colConvBits (1 byte): An 8-bit, unsigned integer. Specifies the color conversion transform. This field MUST be set to CLW_COL_CONV_ICT (0x1), and the transformation is by the equations in sections 3.1.8.1.3 and 3.1.8.2.5.

transformBits (1 byte): An 8-bit, unsigned integer. Specifies the DWT. This field MUST be set to CLW_XFORM_DWT_53_A (0x1), the DWT transform given by the lifting equations for the DWT shown in section 3.1.8.1.4 and by the lifting equations for the inverse DWT shown in section 3.1.8.2.4.

entropyBits (1 byte): An 8-bit, unsigned integer. Specifies the entropy algorithm. This field MUST be set to one of the following values.

Value	Meaning
CLW_ENTROPY_RLGR1 0x01	RLGR algorithm as described in 3.1.8.1.7.1.
CLW_ENTROPY_RLGR3 0x04	RLGR algorithm as described in section 3.1.8.1.7.2.

2.2.1.2 TS_RFX_SRVR_CAPS_CONTAINER

The TS_RFX_SRVR_CAPS_CONTAINER structure is the top-level server capability container, which is sent from the server to the client. It is encapsulated in the **codecProperties** field of the Bitmap Codec structure ([MS-RDPBCGR] section 2.2.7.2.10.1.1), which is ultimately encapsulated in the Bitmap Codecs Capability Set ([MS-RDPBCGR] section 2.2.7.2.10). The Bitmap Codecs Capability Set is encapsulated in a server-to-client Demand Active PDU ([MS-RDPBCGR] section 2.2.1.13.1).

0	1	2	3	4	5	6	7	8	9	1	0	1	2	3	4	5	6	7	8	9	2	0	1	2	3	4	5	6	7	8	9	3	0	1
reserved (variable)																																		
...																																		

reserved (variable): A variable-sized array of bytes. All the bytes in this field MUST be set to 0. The size of the field is given by the corresponding **codecPropertiesLength** field of the parent TS_BITMAPCODEC, as specified in [MS-RDPBCGR] section 2.2.7.2.10.1.1 Bitmap Codecs Capability Set.

2.2.1.3 TS_FRAME_ACKNOWLEDGE_CAPABILITYSET

The TS_FRAME_ACKNOWLEDGE_CAPABILITYSET structure advertises support for frame acknowledgment using the TS_FRAME_ACKNOWLEDGE_PDU (section 2.2.3.1) structure. This capability is sent by both the client and the server and is encapsulated in a server-to-client Demand Active PDU ([MS-RDPBCGR] section 2.2.1.13.1) or a client-to-server Confirm Active PDU ([MS-RDPBCGR] section 2.2.1.13.2).

0	1	2	3	4	5	6	7	8	9	1	0	1	2	3	4	5	6	7	8	9	2	0	1	2	3	4	5	6	7	8	9	3	0	1
capabilitySetType																lengthCapability																		
maxUnacknowledgedFrameCount																																		

capabilitySetType (2 bytes): A 16-bit unsigned integer. The type of capability set. This field MUST be set to CAPSETTYPE_FRAME_ACKNOWLEDGE (0x001E).

lengthCapability (2 bytes): A 16-bit unsigned integer. The length, in bytes, of the capability data.

maxUnacknowledgedFrameCount (4 bytes): A 32-bit unsigned integer. When sent by the server, it MAY be set to 0, in which case it simply advertises the server's ability to receive and process the TS_FRAME_ACKNOWLEDGE_PDU (section 2.2.3.1). If it is not set to 0, it can be used by the client as a hint that indicates the number of in-flight TS_FRAME_ACKNOWLEDGE_PDUs that the server is prepared to accept. When sent by the client, it provides a hint to the server as to how many in-

flight frames the client can buffer. Note that if the server chooses to have more in-flight frames than this number specifies, it is possible that the client could be overloaded with frame data. The client MAY set this field to 0, but this behavior SHOULD be avoided because it provides very little information to the server other than that the client acknowledges frames.

2.2.2 Encode Messages

An encoded RemoteFX stream comprises a sequence of encode messages. The sequencing and encapsulation of these messages are described in section 3.1.8.3.1.

2.2.2.1 Common Data Types

2.2.2.1.1 TS_RFX_BLOCKT

The TS_RFX_BLOCKT structure identifies the type of an encode message and specifies the size of the message.

0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31
blockType																blockLen															
...																															

blockType (2 bytes): A 16-bit, unsigned integer. Specifies the data block type. This field MUST be set to one of the following values.

Value	Meaning
CBT_TILE 0xCAC3	A TS_RFX_TILE (section 2.2.2.3.4.1) structure.
CBY_CAPS 0xCBC0	A TS_RFX_CAPS (section 2.2.1.1.1) structure.
CBY_CAPSET 0xCBC1	A TS_RFX_CAPSET (section 2.2.1.1.1.1) structure.
WBT_SYNC 0xCCC0	A TS_RFX_SYNC (section 2.2.2.2.1) structure.
WBT_CODEEC_VERSIONS 0xCCC1	A TS_RFX_CODEEC_VERSIONS (section 2.2.2.2.2) structure.
WBT_CHANNELS 0xCCC2	A TS_RFX_CHANNELS (section 2.2.2.2.3) structure.

blockLen (4 bytes): A 32-bit, unsigned integer. Specifies the size, in bytes, of the data block. This size includes the size of the **blockType** and **blockLen** fields, as well as all trailing data.

2.2.2.1.2 TS_RFX_CODEEC_CHANNELT

The TS_RFX_CODEEC_CHANNELT structure is an extension of the TS_RFX_BLOCKT structure. It is present as the first field in messages that are targeted for a specific combination of codec and channel.

0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31
blockType																blockLen															
...																codecId								channelId							

blockType (2 bytes): A 16-bit, unsigned integer. Specifies the data block type. This field MUST be set to one of the following values.

Value	Meaning
WBT_CONTEXT 0xCCC3	A TS_RFX_CONTEXT (section 2.2.2.2.4) structure.
WBT_FRAME_BEGIN 0xCCC4	A TS_RFX_FRAME_BEGIN (section 2.2.2.3.1) structure.
WBT_FRAME_END 0xCCC5	A TS_RFX_FRAME_END (section 2.2.2.3.2) structure.
WBT_REGION 0xCCC6	A TS_RFX_REGION (section 2.2.2.3.3) structure.
WBT_EXTENSION 0xCCC7	A TS_RFX_TILESET (section 2.2.2.3.4) structure.

blockLen (4 bytes): A 32-bit, unsigned integer. Specifies the size, in bytes, of the data block. This size includes the size of the **blockType**, **blockLen**, **codecId**, and **channelId** fields, as well as all trailing data.

codecId (1 byte): An 8-bit, unsigned integer. Specifies the codec ID. This field MUST be set to 0x01.

channelId (1 byte): An 8-bit, unsigned integer. Specifies the channel ID. If the **blockType** is set to WBT_CONTEXT (0xCCC3), then **channelId** MUST be set to 0xFF. For all other values of **blockType**, **channelId** MUST be set to 0x00.

2.2.2.1.3 TS_RFX_CHANNELT

The TS_RFX_CHANNELT structure is used to specify the screen resolution of a channel.

0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31
channelId								width																height							
...																															

channelId (1 byte): An 8-bit, unsigned integer. Specifies the identifier of the channel. This field MUST be set to 0x00.

width (2 bytes): A 16-bit, signed integer. Specifies the frame width of the channel. This field SHOULD<3> be within the range of 1 to 4096 (inclusive).

height (2 bytes): A 16-bit, signed integer. Specifies the frame height of the channel. This field SHOULD<4> be within the range of 1 to 2048 (inclusive).

2.2.2.1.4 TS_RFX_CODEC_VERSIONT

The TS_RFX_CODEC_VERSIONT structure is used to specify support for a specific version of the RemoteFX codec.

0	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	1
codecId										version																					

codecId (1 byte): An 8-bit, unsigned integer. Specifies the codec ID. This field MUST be set to 0x01. The decoder SHOULD ignore this field.

version (2 bytes): A 16-bit, signed integer. This field MUST be set to 0x0100. The decoder SHOULD ignore this field.

2.2.2.1.5 TS_RFX_CODEC_QUANT

The TS_RFX_CODEC_QUANT structure holds the scalar quantization values for the ten sub-bands in the 3-level DWT decomposition. Each field in this structure MUST have a value in the range of 6 to 15.

0	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	1
LL3				LH3				HL3				HH3				LH2				HL2				HH2				LH1			
HL1				HH1																											

LL3 (4 bits): A 4-bit, unsigned integer. The LL quantization factor for the level-3 DWT sub-band.

LH3 (4 bits): A 4-bit, unsigned integer. The LH quantization factor for the level-3 DWT sub-band.

HL3 (4 bits): A 4-bit, unsigned integer. The HL quantization factors for the level-3 DWT sub-band.

HH3 (4 bits): A 4-bit, unsigned integer. The HH quantization factors for the level-3 DWT sub-band.

LH2 (4 bits): A 4-bit, unsigned integer. The LH quantization factor for the level-2 DWT sub-band.

HL2 (4 bits): A 4-bit, unsigned integer. The HL quantization factor for the level-2 DWT sub-band.

HH2 (4 bits): A 4-bit, unsigned integer. The HH quantization factor for the level-2 DWT sub-band.

LH1 (4 bits): A 4-bit, unsigned integer. The LH quantization factors for the level-1 DWT sub-band.

HL1 (4 bits): A 4-bit, unsigned integer. The HL quantization factors for the level-1 DWT sub-band.

HH1 (4 bits): A 4-bit, unsigned integer. The HH quantization factor for the level-1 DWT sub-band.

2.2.2.1.6 TS_RFX_RECT

The TS_RFX_RECT structure is used to specify a rectangle.

0	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	1				
x																		y																	

width	height
-------	--------

x (2 bytes): A 16-bit, unsigned integer. The X-coordinate of the rectangle.

y (2 bytes): A 16-bit, unsigned integer. The Y-coordinate of the rectangle.

width (2 bytes): A 16-bit, unsigned integer. The width of the rectangle.

height (2 bytes): A 16-bit, unsigned integer. The height of the rectangle.

2.2.2.2 Encode Header Messages

2.2.2.2.1 TS_RFX_SYNC

The TS_RFX_SYNC message MUST be the first message in any encoded stream. The decoder MUST examine this message to determine whether the protocol version is supported.

0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31
BlockT																															
...																magic															
...																version															

BlockT (6 bytes): A TS_RFX_BLOCKT (section 2.2.2.1.1) structure. The **blockType** field MUST be set to WBT_SYNC (0xCCCC0).

magic (4 bytes): A 32-bit, unsigned integer. This field MUST be set to WF_MAGIC (0xCACCACCA).

version (2 bytes): A 16-bit, unsigned integer. Indicates the version number. This field MUST be set to WF_VERSION_1_0 (0x0100).

2.2.2.2.2 TS_RFX_CODECS_VERSIONS

The TS_RFX_CODECS_VERSIONS message indicates the version of the RemoteFX codec that is being used.

0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31
BlockT																															
...																numCodecs								codecs							
...																															

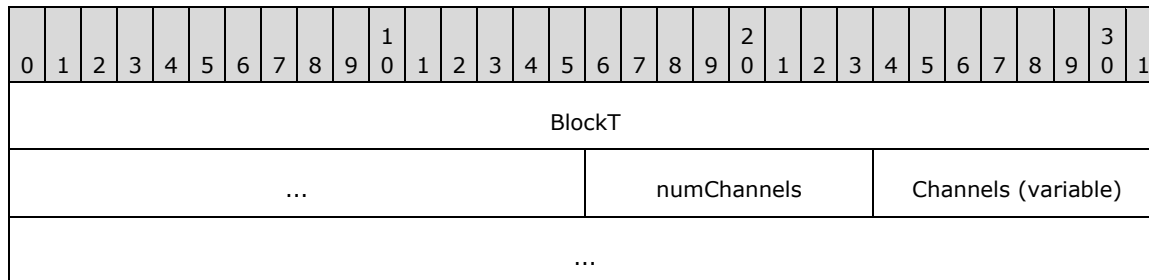
BlockT (6 bytes): A TS_RFX_BLOCKT (section 2.2.2.1.1) structure. The **blockType** field MUST be set to WBT_CODECS_VERSIONS (0xCCC1).

numCodecs (1 byte): An 8-bit, unsigned integer. Specifies the number of codec version data blocks in the **codecs** field. This field MUST be set to 0x01.

codecs (3 bytes): A TS_RFX_CODEC_VERSIONT (section 2.2.2.1.4) structure. The **codecId** field MUST be set to 0x01 and the **version** field MUST be set to WF_VERSION_1_0 (0x0100).

2.2.2.2.3 TS_RFX_CHANNELS

The TS_RFX_CHANNELS message contains the list of channels. Each active monitor on the server must correspond to an entry in this list. The list can have more entries than the number of active monitors. The decoder endpoint MUST be able to support channels with different frame dimensions.



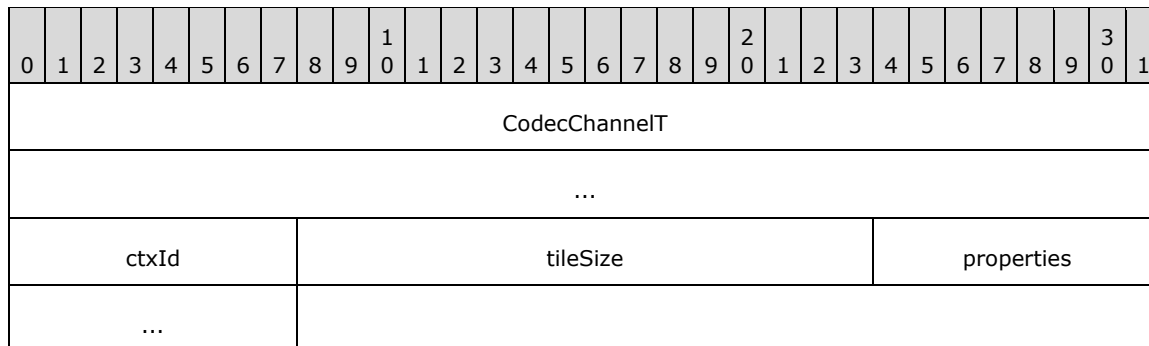
BlockT (6 bytes): A TS_RFX_BLOCKT (section 2.2.2.1.1) structure. The **blockType** field MUST be set to WBT_CHANNELS (0xCCC2).

numChannels (1 byte): An 8-bit, unsigned integer. Specifies the number of channel data blocks in the **channels** field.

Channels (variable): A variable-length array of TS_RFX_CHANNELT (section 2.2.2.1.3) structures. The number of elements in this array is specified in the **numChannels** field.

2.2.2.2.4 TS_RFX_CONTEXT

The TS_RFX_CONTEXT message contains information regarding the encoding properties being used.



CodecChannelT (8 bytes): A TS_RFX_CODEC_CHANNELT structure. The **blockType** field MUST be set to WBT_CONTEXT (0xCCC3).

ctxId (1 byte): An 8-bit unsigned integer. Specifies an identifier for this context message. This field MUST be set to 0x00. The decoder SHOULD ignore this field.

tileSize (2 bytes): A 16-bit unsigned integer. Specifies the tile size used by the RemoteFX codec. This field MUST be set to CT_TILE_64x64 (0x0040), indicating that a tile is 64 x 64 pixels.

properties (2 bytes): A 16-bit unsigned integer. Contains a collection of bit-packed property fields. The format of this field is described by the following bitfield diagram.

0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31
flags			cct		xft				et				qt		r																

flags (3 bits): A 3-bit unsigned integer. Specifies operational flags.

Flag	Meaning
CODEC_MODE 0x02	The codec is operating in image mode. If this flag is not set, the codec is operating in video mode.

When operating in image mode, the Encode Headers messages (section 2.2.2.2) MUST always precede an encoded frame. When operating in video mode, the header messages MUST be present at the beginning of the stream and MAY be present elsewhere.

cct (2 bits): A 2-bit unsigned integer. Specifies the color conversion transform. This field MUST be set to COL_CONV_ICT (0x1) to specify the transform defined by the equations in sections 3.1.8.1.3 and 3.1.8.2.5. The decoder SHOULD ignore this field.

xft (4 bits): A 4-bit unsigned integer. Specifies the DWT. This field MUST be set to CLW_XFORM_DWT_53_A (0x1), which indicates the DWT given by the equations in sections 3.1.8.1.4 and 3.1.8.2.4.

et (4 bits): A 4-bit unsigned integer. Specifies the entropy algorithm. This field MUST be set to one of the following values.

Value	Meaning
CLW_ENTROPY_RLGR1 0x01	RLGR algorithm as detailed in 3.1.8.1.7.1.
CLW_ENTROPY_RLGR3 0x04	RLGR algorithm as detailed in 3.1.8.1.7.2.

The decoder SHOULD ignore this value and use the value defined in the properties field of TS_RFX_TILESET (section 2.2.2.3.4).

qt (2 bits): A 2-bit unsigned integer. Specifies the quantization type. This field MUST be set to SCALAR_QUANTIZATION (0x1). The decoder SHOULD ignore this field.

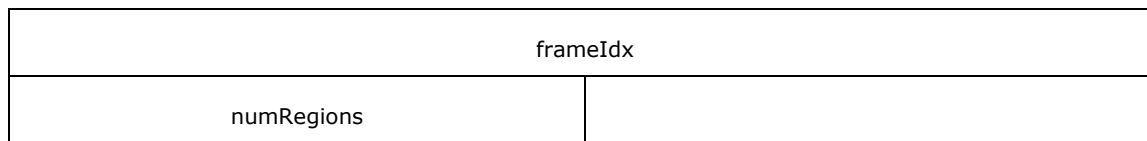
r (1 bit): A 1-bit field reserved for future use. This field MUST be ignored when received.

2.2.2.3 Encode Data Messages

2.2.2.3.1 TS_RFX_FRAME_BEGIN

The TS_RFX_FRAME_BEGIN message indicates the start of a new frame for a specific channel in the encoded stream.

0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31
CodecChannelT																															
...																															



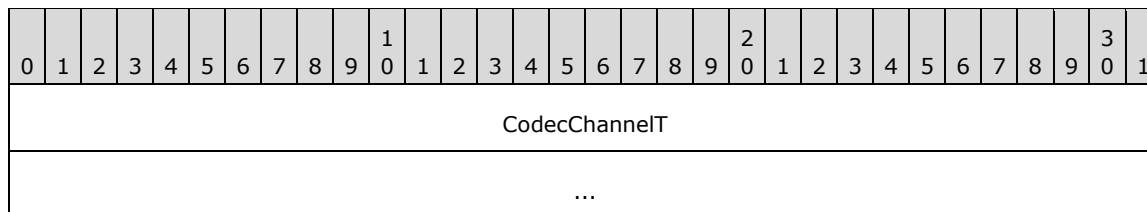
CodecChannelT (8 bytes): A TS_RFX_CODEC_CHANNELT (section 2.2.2.1.2) structure. The **blockType** field MUST be set to WBT_FRAME_BEGIN (0xCCC4).

frameIdx (4 bytes): A 32-bit unsigned integer. Specifies the index of the frame in the current video sequence. This field is used when the codec is operating in video mode, as specified using the **flags** field of the TS_RFX_CONTEXT (section 2.2.2.4) message. If the codec is operating in image mode, this field MUST be ignored. If the codec is operating in video mode, this field SHOULD be ignored.

numRegions (2 bytes): A 16-bit signed integer. Specifies the number of TS_RFX_REGION (section 2.2.2.3) messages following this TS_RFX_FRAME_BEGIN message. That is, the number of regions in the frame.

2.2.2.3.2 TS_RFX_FRAME_END

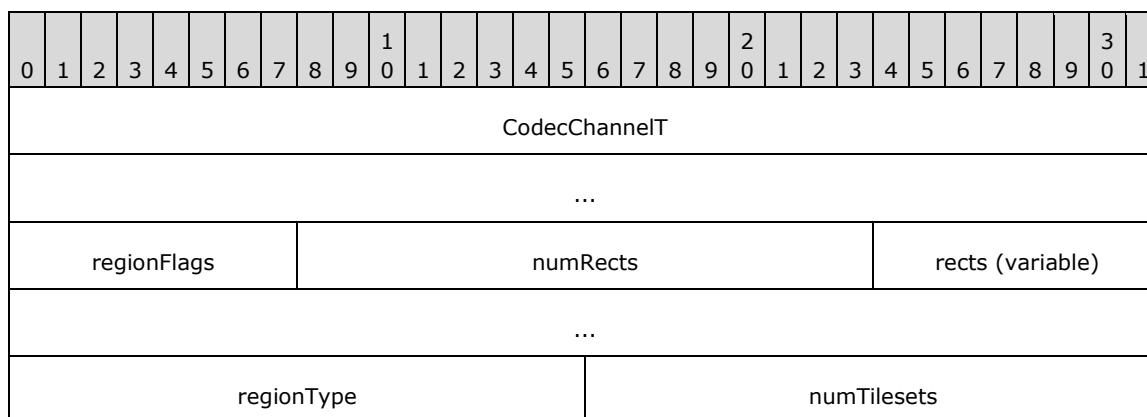
The TS_RFX_FRAME_END message specifies the end of a frame for a specific channel in the encoded stream.



CodecChannelT (8 bytes): A TS_RFX_CODEC_CHANNELT (section 2.2.2.1.2) structure. The **blockType** field MUST be set to WBT_FRAME_END (0xCCC5).

2.2.2.3.3 TS_RFX_REGION

The TS_RFX_REGION message contains information about the list of change rectangles on the screen for a specific channel. It also specifies the number of trailing TS_RFX_TILESET (section 2.2.2.3.4) messages.



CodecChannelT (8 bytes): A TS_RFX_CODEC_CHANNELT (section 2.2.2.1.2) structure. The **blockType** field MUST be set to WBT_REGION (0xCCC6).

regionFlags (1 byte): An 8-bit, unsigned integer. Contains a collection of bit-packed property fields. The format of this field is described by the following bitfield diagram.

0	1	2	3	4	5	6	7
lrf	reserved						

lrf (1 bit): A 1-bit unsigned integer. This field MUST be set to 0x1. The decoder SHOULD ignore this field.

reserved (7 bits): A 7-bit integer reserved for future use. This field MUST be ignored.

numRects (2 bytes): A 16-bit, unsigned integer. Specifies the number of TS_RFX_RECT (section 2.2.2.1.6) structures present in the **rects** field. If this value is zero, the decoder MUST generate a rectangle with coordinates (0, 0, width, height) that reflects the width and height of the channel's frame (section 2.2.2.1.3).

rects (variable): A variable-length array of TS_RFX_RECT (section 2.2.2.1.6) structures. This array defines the region. The number of rectangles in the array is specified in the **numRects** field. Processing rules for the rectangles in this array are specified in section 3.1.8.2.6.

regionType (2 bytes): A 16-bit, unsigned integer. Specifies the region type. This field MUST be set to CBT_REGION (0xCAC1).

numTilesets (2 bytes): A 16-bit, unsigned integer. Specifies the number of TS_RFX_TILESET (section 2.2.2.3.4) messages following this TS_RFX_REGION message. This field MUST be set to 0x0001.

2.2.2.3.4 TS_RFX_TILESET

The TS_RFX_TILESET message contains encoding parameters and data for an arbitrary number of encoded tiles.

0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31
CodecChannelT																															
...																															
subtype																idx															
properties																numQuant								tileSize							
numTiles																tilesDataSize															
...																quantVals (variable)															
...																															
tiles (variable)																															
...																															

CodecChannelT (8 bytes): A TS_RFX_CODEC_CHANNELT (section 2.2.2.1.2) structure. The **blockType** field MUST be set to WBT_EXTENSION (0xCCC7).

subtype (2 bytes): A 16-bit, unsigned integer. Specifies the message type. This field MUST be set to CBT_TILESET (0xCAC2).

idx (2 bytes): A 16-bit, unsigned integer. Specifies the identifier of the TS_RFX_CONTEXT (section 2.2.2.2.4) message referenced by this TileSet message. This field MUST be set to 0x0000. The decoder SHOULD ignore this field.

properties (2 bytes): A 16-bit unsigned integer. Contains a collection of bit-packed property fields. The format of this field is described by the following bitmask diagram.

0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31
A	flags			cct		xft			et				qt																		

A - It (1 bit): A 1-bit field that specifies whether this is the last TS_RFX_TILESET in the region. This field MUST be set to TRUE (0x1). The decoder SHOULD ignore this field.

flags (3 bits): A 3-bit unsigned integer. Specifies operational flags.

Flag	Meaning
CODEC_MODE 0x02	The codec is operating in image mode. If this flag is not set, the codec is operating in video mode.

The encoder MUST set this value to the value of flags that is set in the properties field of TS_RFX_CONTEXT. The decoder MUST ignore this flag and MUST use the flags specified in the **flags** field of the TS_RFX_CONTEXT.

cct (2 bits): A 2-bit unsigned integer. Specifies the color conversion transform. This field MUST be set to COL_CONV_ICT (0x1) to specify the transform defined by the equations in sections 3.1.8.1.3 and 3.1.8.2.5. The decoder SHOULD ignore this field.

xft (4 bits): A 4-bit unsigned integer. Specifies the DWT. This field MUST be set to CLW_XFORM_DWT_53_A (0x1), which indicates the DWT given by the equations in sections 3.1.8.1.4 and 3.1.8.2.4. The decoder SHOULD ignore this field.

et (4 bits): A 4-bit unsigned integer. Specifies the entropy algorithm. This field MUST be set to one of the following values.

Value	Meaning
CLW_ENTROPY_RLGR1 0x01	RLGR algorithm as detailed in 3.1.8.1.7.1.
CLW_ENTROPY_RLGR3 0x04	RLGR algorithm as detailed in 3.1.8.1.7.2.

qt (2 bits): A 2-bit unsigned integer. Specifies the quantization type. This field MUST be set to SCALAR_QUANTIZATION (0x1). The decoder SHOULD ignore this field.

numQuant (1 byte): An 8-bit, unsigned integer. Specifies the number of TS_RFX_CODEC_QUANT (section 2.2.2.1.5) structures present in the **quantVals** field.

tileSize (1 byte): An 8-bit, unsigned integer. Specifies the width and height of a tile. This field MUST be set to 0x40. The decoder SHOULD ignore this field.

numTiles (2 bytes): A 16-bit, unsigned integer. Specifies the number of TS_RFX_TILE (section 2.2.2.3.4.1) structures present in the **tiles** field.

tilesDataSize (4 bytes): A 32-bit, unsigned integer. Specifies the size, in bytes, of the **tiles** field. The **tiles** field contains encoded data for all of the tiles that have changed.

quantVals (variable): A variable-length array of TS_RFX_CODEEC_QUANT (section 2.2.2.1.5) structures. The number of structures present in the array is indicated in the **numQuant** field.

tiles (variable): A variable-length array of TS_RFX_TILE (section 2.2.2.3.4.1) structures. The number of structures present in the array is indicated in the **numTiles** field, while the total size, in bytes, of this field is specified by the **tilesDataSize** field.

2.2.2.3.4.1 TS_RFX_TILE

The TS_RFX_TILE structure specifies the position of the tile on the frame and contains the encoded data for the three tile components of Y, Cb, and Cr.

0	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	1
BlockT																															
...																quantIdxY								quantIdxCb							
quantIdxCr								xIdx																yIdx							
...																YLen								CbLen							
...																CrLen								YData (variable)							
...																															
CbData (variable)																															
...																															
CrData (variable)																															
...																															

BlockT (6 bytes): A TS_RFX_BLOCKT (section 2.2.2.1.1) structure. The **blockType** field MUST be set to CBT_TILE (0xCAC3).

quantIdxY (1 byte): An 8-bit, unsigned integer. Specifies an index into the TS_RFX_CODEEC_QUANT array provided in the TS_RFX_TILESET message. The specified **TS_RFX_CODEEC_QUANT** element MUST be used for de-quantization of the sub-bands for the Y-component.

quantIdxCb (1 byte): An 8-bit, unsigned integer. Specifies an index into the TS_RFX_CODEEC_QUANT array provided in the TS_RFX_TILESET message. The specified **TS_RFX_CODEEC_QUANT** element MUST be used for de-quantization of the sub-bands for the Cb-component.

quantIdxCr (1 byte): An 8-bit, unsigned integer. Specifies an index into the TS_RFX_CODEC_QUANT array provided in the TS_RFX_TILESET message. The specified **TS_RFX_CODEC_QUANT** element MUST be used for de-quantization of the sub-bands for the Cr-component.

xIdx (2 bytes): A 16-bit, unsigned integer. The X-index of the encoded tile in the screen tile grid.

yIdx (2 bytes): A 16-bit, unsigned integer. The Y-index of the encoded tile in the screen tile grid.

YLen (2 bytes): A 16-bit, unsigned integer. Specifies the size, in bytes, of the **YData** field.

CbLen (2 bytes): A 16-bit, unsigned integer. Specifies the size, in bytes, of the **CbData** field.

CrLen (2 bytes): A 16-bit, unsigned integer. Specifies the size, in bytes, of the **CrData** field.

YData (variable): A variable-length array. Contains the encoded data for the Y-component of the tile. The size, in bytes, of this field is specified by the **YLen** field.

CbData (variable): A variable-length array. Contains the encoded data for the Cb-component of the tile. The size, in bytes, of this field is specified by the **CbLen** field.

CrData (variable): A variable-length array. Contains the encoded data for the Cr-component of the tile. The size, in bytes, of this field is specified by the **CrLen** field.

2.2.3 Control Messages

2.2.3.1 TS_FRAME_ACKNOWLEDGE_PDU

The TS_FRAME_ACKNOWLEDGE_PDU structure is a client-to-server PDU sent to the server whenever the client receives a Frame Marker Command ([MS-RDPBCGR] section 2.2.9.2.3) with the **frameAction** field set to SURFACECMD_FRAMEACTION_END (0x0001) and it has finished processing this particular frame (that is, the surface bits have been rendered on the screen). The server uses this acknowledgment to throttle the rate at which it generates frames of data to avoid overloading the client with too many updates. The server SHOULD NOT wait for an acknowledgment for each frame before sending the next frame. Instead, the server SHOULD have a "window" mechanism where it allows multiple frames to be unacknowledged before it slows down its frame rate (or stops completely).

0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31
tpktHeader																															
x224Data																								mcsSDrq (variable)							
...																															
securityHeader (variable)																															
...																															
shareDataHeader (18 bytes)																															
...																															
...																															

...	frameID
...	

tpktHeader (4 bytes): A TPKT Header as specified in [T123] section 8.

x224Data (3 bytes): An X.224 Class 0 Data TPDU, as specified in [X224] section 13.7.

mcsSDrq (variable): Variable-length PER-encoded MCS Domain PDU (DomainMCSPDU) that encapsulates an MCS Send Data Request structure (SDrq, choice 25 from DomainMCSPDU). This is as specified in [T125] section 11.32, and the ASN.1 structure definitions are specified in [T125] section 7, parts 7 and 10. The **userData** field of the MCS Send Data Request PDU contains a Security Header, Share Data Header, and a frame ID.

securityHeader (variable): Optional security header. The presence and format of the security header depend on the Encryption Level and Encryption Method selected by the server ([MS-RDPBCGR] sections 5.3.2 and 2.2.1.4.3). If the Encryption Level selected by the server is greater than ENCRYPTION_LEVEL_NONE (0) and the Encryption Method selected by the server is greater than ENCRYPTION_METHOD_NONE (0), this field MUST contain one of the following headers:

- Non-FIPS Security Header ([MS-RDPBCGR] section 2.2.8.1.1.2.2) if the Encryption Method selected by the server is ENCRYPTION_METHOD_40BIT (0x00000001), ENCRYPTION_METHOD_56BIT (0x00000008), or ENCRYPTION_METHOD_128BIT (0x00000002).
- FIPS Security Header ([MS-RDPBCGR] section 2.2.8.1.1.2.3) if the Encryption Level selected by the server is ENCRYPTION_METHOD_FIPS (0x00000010).

If the Encryption Level selected by the server is ENCRYPTION_LEVEL_NONE (0) and the Encryption Method selected by the server is ENCRYPTION_METHOD_NONE (0), this header MUST NOT be included in the PDU.

shareDataHeader (18 bytes): Share Data Header ([MS-RDPBCGR] section 2.2.8.1.1.1.2) containing information about the packet. The type subfield of the **pduType** field of the Share Control Header ([MS-RDPBCGR] section 2.2.8.1.1.1.1) within the Share Data Header MUST be set to PDUTYPE_DATAPDU (0x0007). The **pduType2** field of the Share Data Header MUST be set to PDUTYPE2_FRAME_ACKNOWLEDGE (0x38).

frameID (4 bytes): A 32-bit unsigned integer. This field specifies the 32-bit identifier of the frame that was sent to the client using a Frame Marker Command and is being acknowledged as delivered. The **frameID** field MUST be populated with the value of the **frameID** field that was specified in the Frame Marker Command associated with the frame being acknowledged. If the **frameID** field is set to the value 0xFFFFFFFF, the server SHOULD assume that all in-flight frames have been acknowledged.

3 Protocol Details

3.1 Common Details

3.1.1 Abstract Data Model

This section describes a conceptual model of possible data organization that an implementation maintains to participate in this protocol. The described organization is provided to facilitate the explanation of how the protocol behaves. This document does not mandate that implementations adhere to this model, as long as their external behavior is consistent with that described in this document.

OperationalMode: Stores the operational mode currently in use. Operational modes include video mode, and image mode.

EntropyAlgorithm: Stores the entropy algorithm currently in use. Entropy algorithms include RLGR1 and RLGR3.

FrameIndex: A 32-bit integer variable. Used by the server to keep track of the current index of the encoded frame within an encoding session. This variable is used only when the **OperationalMode** is video mode. If the **OperationalMode** is image mode, the server does not need to maintain this variable.

In video mode, initialize this variable to 0 at the start of the session and then increment it by 1 after every encoded frame. The current value of this variable is stored in the **frameIdx** field of the TS_RFX_FRAME_BEGIN message (section 2.2.2.3.1).

3.1.1.1 State Machine

The following figure and table describe the state machine of the codec at the server end.

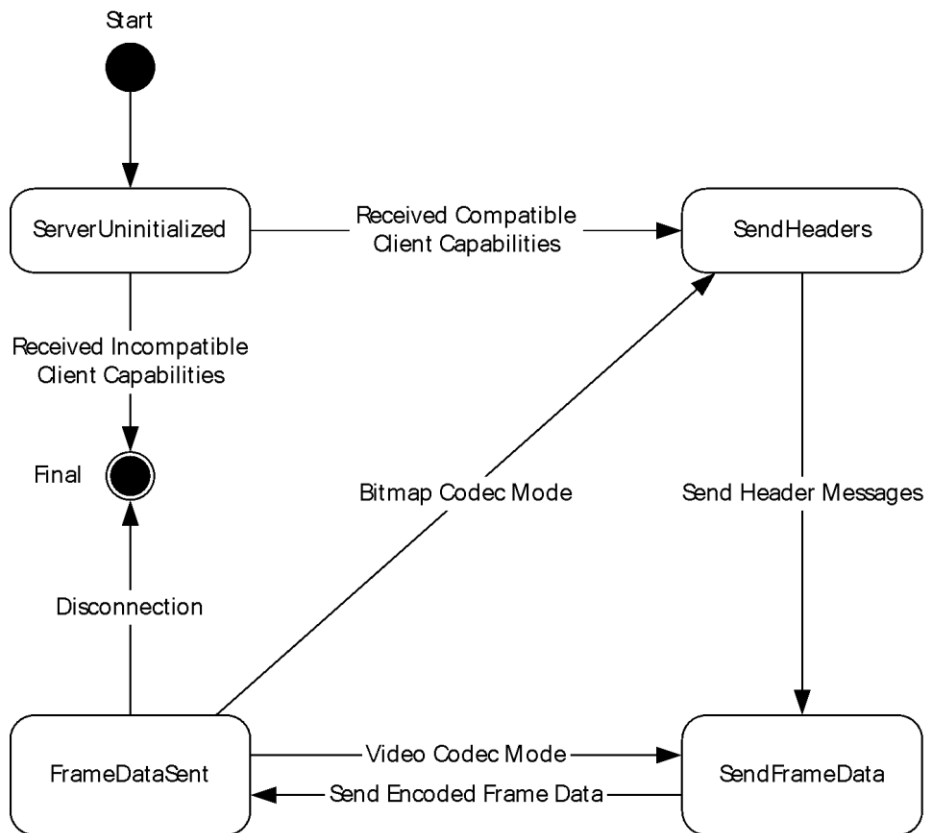


Figure 3: Server state diagram

State Name	Description
ServerUninitialized	This is the initial state of the server. In this state, the server waits for the TS_RFX_CLNT_CAPS_CONTAINER message from the client. On receiving this message, the server processes it as described in section 3.1.5.1. If it finds a compatible TS_RFX_ICAP, it initializes itself and gets into the SendHeaders state. Otherwise, the connection is terminated (section 3.1.5.1).
SendHeaders	In this state, the server sends the Header message sequence as described in section 3.1.8.3.1 and shown in Figure 17. The server then transitions to the SendFrameData state.
SendFrameData	In this state, the server sends the encoded frame data messages as described in section 3.1.8.3.1 and shown in Figure 18. The server then transitions to the FrameDataSent state.
FrameDataSent	If the OperationalMode of the server is image mode, the server transitions to the SendHeaders state. If the OperationalMode is video mode, the server transitions to either the SendFrameData state or the SendHeaders state.

3.1.2 Timers

None.

3.1.3 Initialization

The Bitmap Codecs Capability Set message ([MS-RDPBCGR] section 2.2.7.2.10) MUST be processed by the server, as specified in section 3.1.5.1, before RemoteFX encoding begins. This establishes the encoding properties that will be used by the server when sending the encoded data stream.

The Bitmap Codecs Capability Set is sent by the client, encapsulating the TS_RFX_CLNT_CAPS_CONTAINER (section 2.2.1.1). The server ultimately processes the encapsulated TS_RFX_CLNT_CAPS_CONTAINER (section 2.2.1.1) message as specified in section 3.1.5.1, picking a TS_RFX_ICAP (section 2.2.1.1.1.1.1) element. From that point on, the server uses the capability properties listed in that element to encode RemoteFX data streams.

3.1.4 Higher-Layer Triggered Events

None.

3.1.5 Processing Events and Sequencing Rules

Establishing the connection: RemoteFX capabilities messages are exchanged to establish the encoding properties used by the server, as specified in sections 3.1.3 and 3.1.5.1. A compliant server MUST process the TS_RFX_CLNT_CAPS_CONTAINER message as specified in section 3.1.5.1 before RemoteFX encoding can begin.

Sending RemoteFX encoded data: RemoteFX encoded data is sent to the client as a sequence of the RemoteFX messages defined in section 2.2.2. A compliant server MUST always send the encoded messages in the correct order, as specified in section 3.1.8.3.1.

Header messages: The encoded message sequence MUST include header messages, as specified in section 3.1.8.3.1.

Header messages contain information about the encoding properties used for encoding data messages, and are used by the client to decode the message stream. Header messages MUST always specify the encoding properties initialized and stored in **OperationalMode** and **EntropyAlgorithm**. The encode header and data message sequences are shown in the figures Generation of RemoteFX encode header messages and Generation of RemoteFX encode data messages (section 3.1.8.3.1).

Header messages can appear multiple times within the message stream, depending on the **OperationalMode** property:

- If the encoder is initialized with **OperationalMode** set to video mode, then it MUST send the encode header message sequence at the start of the stream. The encode header message sequence is then followed by an arbitrary number of encode data message sequences.
- If the encoder is initialized with **OperationalMode** set to image mode, then it MUST send the encode header message sequence before every encode data message sequence.

Entropy Algorithm: The server MUST use the entropy algorithm, initialized and stored in **EntropyAlgorithm**, to encode every data message in the encoded data stream.

Error conditions: If the client receives an out-of-sequence, unspecified, or malformed message, then the client MUST treat this as an error and terminate the RDP connection.

3.1.5.1 Processing the TS_RFX_CLNT_CAPS_CONTAINER Message

The structure and fields of the TS_RFX_CLNT_CAPS_CONTAINER, and its constituent members, are specified in section 2.2.1.1.

TS_RFX_CLNT_CAPS_CONTAINER has a TS_RFX_CAPS field. The TS_RFX_CAPS field contains a TS_RFX_CAPSET sub-field, which is composed of a variable number of TS_RFX_ICAP structures.

The encoder parses the TS_RFX_CLNT_CAPS_CONTAINER message to get to the array of TS_RFX_ICAP structures. It processes each element of this array to check whether it can support all the properties listed in that TS_RFX_ICAP element. From this set of supported elements, it will arbitrarily pick one element and use only the properties listed in that specific TS_RFX_ICAP to encode the data stream.

For example, if the decoder supports both RLGR1 and RLGR3, the client can specify support for both of them. This support is specified using two TS_RFX_ICAP elements in the TS_RFX_CAPSET message that the client sends to the server. If the encoder also supports both RLGR1 and RLGR3, it then arbitrarily picks one of the TS_RFX_CAPSET elements to use for encoding.

Once a TS_RFX_ICAP element has been picked, the **OperationalMode** and **EntropyAlgorithm** ADM elements are set as follows.

- If the TS_RFX_ICAP element's **flags** field is set to include the 0x02 flag, the **OperationalMode** is set to image mode; otherwise, the **OperationalMode** is set to video mode.
- When the TS_RFX_ICAP element's **entropyBits** field is set to 0x01, the **EntropyAlgorithm** is set to RLGR1; when **entropyBits** is set to 0x04, **EntropyAlgorithm** is set to RLGR3.

Error conditions: If the server cannot support any of the TS_RFX_ICAP elements, it MUST stop sending messages and consider the RDP connection terminated.

3.1.6 Timer Events

None.

3.1.7 Other Local Events

None.

3.1.8 RemoteFX Algorithm

RemoteFX is a tile-based transform codec. It has the same functional stages as those found in most structured compression systems (section 1.3.1). At the encode endpoint, these stages are transform, quantization, and entropy encoding. The inverse of these operations (in the reverse order) takes place at the decode endpoint. RemoteFX uses DWTs and Run-Length Golomb-Rice Coding (RLGR) ([ARLGR] section 3) for transformation and entropy encoding respectively.

3.1.8.1 Encoding

The functional stages involved in the encoding path are illustrated in the following figure. Each of these stages is described in the subsections that follow.

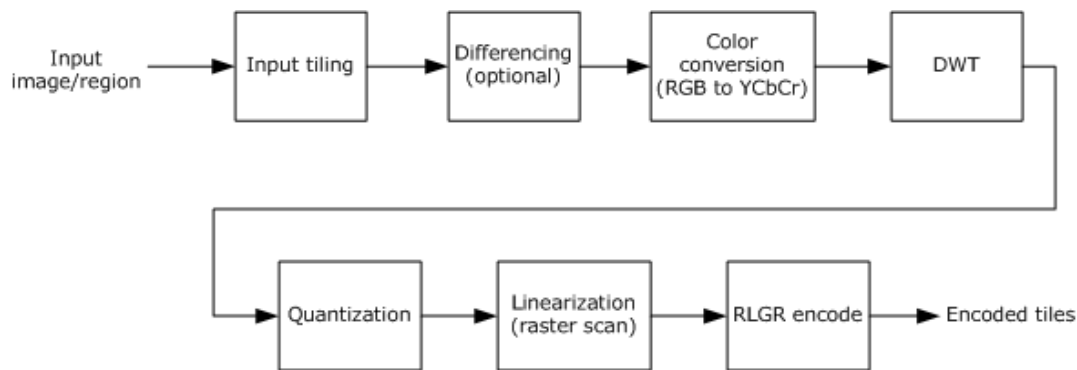


Figure 4: RemoteFX encoding stages

3.1.8.1.1 Input Tiling

The input to the encoder is an arbitrary region contained within an image to be encoded. The input image is overlaid with a tile grid anchored to the top left corner of the screen (0, 0) and aligned to the tile size (the tile size MUST be 64 x 64 pixels). The set of tiles that map to the input region are computed. These tiles are candidates for further processing, and each tile is processed independently of the others.

3.1.8.1.2 Differencing (Optional)

If the RemoteFX codec is to be used as a video codec, the encoder can, optionally, do differencing between current and previous frames to compute the smallest set of tiles that have changed. The differencing is done by comparing the set of input tiles in the current frame with collocated tiles from the previous frame to determine whether any pixels have changed. Only the input tiles with changed pixels in the current frame are processed for compression. Note that the input tile is compressed as is; this algorithm does not compress the tile of difference values formed by subtracting the input tile pixels of the current frame from the collocated tile pixels in the previous frame. This means that the decoder does not need to determine whether the encoder is doing differencing. The encoder can use differencing to reduce the number of tiles that it needs to encode, thereby reducing the bandwidth required to send the compressed tiles to the decoder. If the codec is to be used as an image codec, this stage MUST be skipped.

3.1.8.1.3 Color Conversion (RGB to YCbCr)

Each input tile is converted from the RGB color space to the YCbCr color space. The transform used takes an RGB input value with each component in the range [0-255] and transforms it into Y, Cb, and Cr, in the ranges [0.0, 255.0], [-128.0, 127.0], and [-128.0, 127.0], respectively. The Y-component is level-shifted down by 128, so that it also falls into the [-128.0, 127.0] range. The input tile in this level-shifted symmetric YCbCr color space is used as the input for the next stage of DWT. The matrix equation for this conversion is shown in the following figure.

$$[Y \ Cb \ Cr] = [RGB] \begin{bmatrix} 0.299 & -0.168935 & 0.499813 \\ 0.587 & -0.331665 & -0.418531 \\ 0.114 & 0.50059 & -0.081282 \end{bmatrix}$$

Figure 5: The RGB to YCbCr conversion matrix

3.1.8.1.4 DWT

Each tile component (Y, Cb, Cr) is individually transformed by a 2-D DWT using a 5/3 wavelet basis. The filter coefficients used for both of the lifting-based implementations are presented in the following figure.

$$H[n] = \left[\frac{X[2n+1] - \left[\frac{X[2n] + X[2n+2]}{2} \right]}{2} \right] \quad L[n] = X[2n] + \left[\frac{H[n-1] + H[n]}{2} \right]$$

a. High-pass coefficients b. Low-pass coefficients

Figure 6: Lifting equations for the DWT

Filtering at the boundary is done by mirroring the input coefficients. For example, if there are eight input coefficients:

[0, 1, 2, 3, 4, 5, 6, 7]

then, after mirroring, the coefficients get logically extended as follows:

[..., 7, 6, 5, 4, 3, 2, 1, 0, 1, 2, 3, 4, 5, 6, 7, 6, 5, 4, 3, 2, 1, 0, ...]

Use this logical extension when filtering at boundaries where coefficients are required before or after the first and last available coefficient.

For each level of decomposition, we first perform the DWT in the vertical direction, followed by the DWT in the horizontal direction. After the first level of decomposition, there are 4 sub-bands: LL1, LH1, HL1, HH1. For each successive level of decomposition, the LL sub-band of the previous level is used as the input. Each tile component undergoes three levels of decomposition. This results in 10 sub-bands per component. LH1, HL1, and HH1 contain the highest frequency bands present in the image tile, while LL3 contains the lowest frequency band.

The three-level DWT decomposition is illustrated in the following figure.

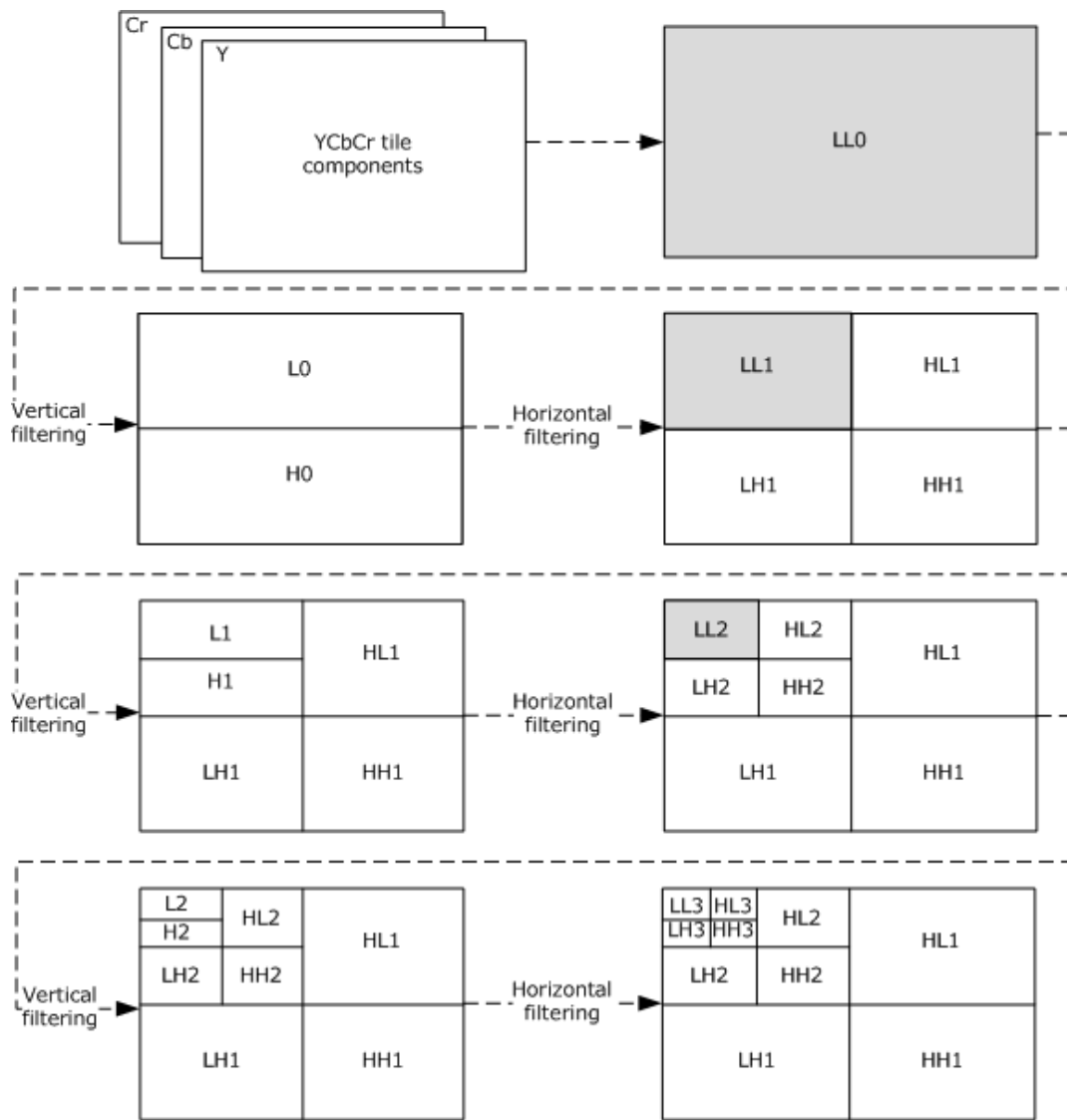


Figure 7: Three-level DWT decomposition

3.1.8.1.5 Quantization

The encoder determines a scale value for each sub-band and uses it to quantize all the coefficients in that sub-band, which is done by dividing each coefficient by the scale value and rounding it. These scale values are represented as quantization factors in a TS_RFX_CODEC_QUANT structure, which is embedded in a TS_RFX_TILESET message. The conversion between a scale value and a quantization factor is given by the following figure.

$$\text{Scale_value} = (1 << (\text{quantization_factor} - 6))$$

Figure 8: Quantization factor to scale value conversion

3.1.8.1.6 Linearization

The quantized tile components are linearized by raster scanning each of the sub-bands. The sub-band coefficient scan and traversal order is illustrated in the following figure.

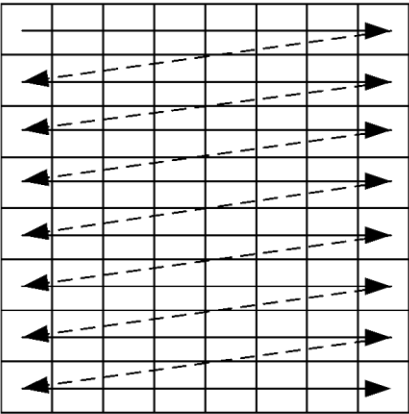


Figure 9: Raster scan of sub-band coefficients

Linearization of the sub-bands is conducted in the following sequence: HL1, LH1, HH1, HL2, LH2, HH2, HL3, LH3, HH3, and LL3, as shown in the following figure.

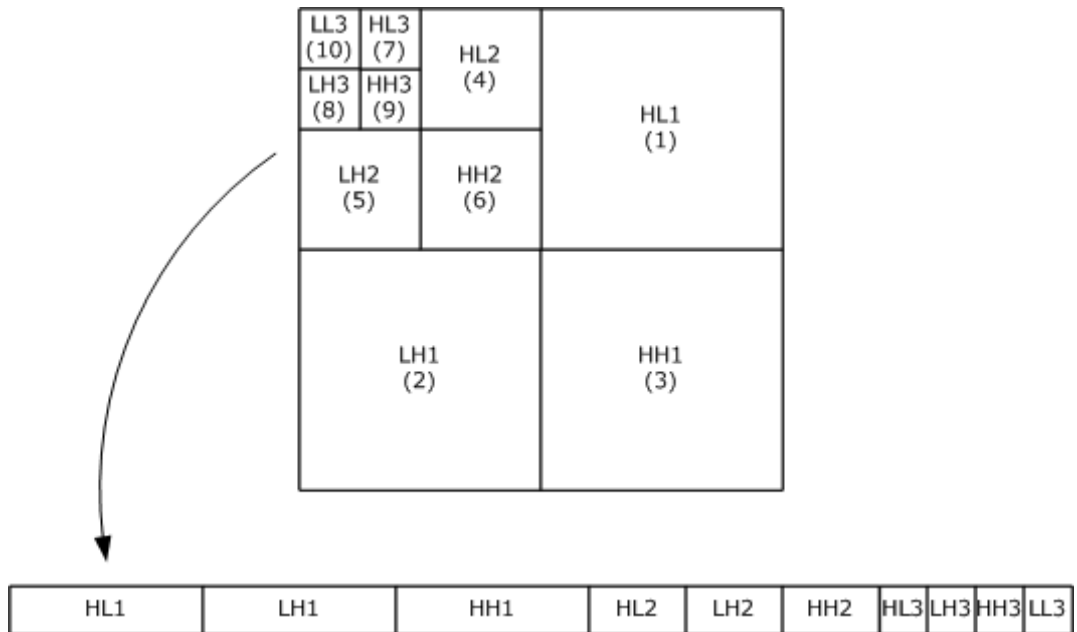


Figure 10: Sub-band traversal order

The coefficients from LL3 also undergo differential encoding. Except for the first coefficient, every raster-scanned LL3 coefficient is subtracted from its previous neighbor. For example, if the raster-scanned LL3 coefficients are

[64, 32, 42, 54, 50, 60, 40, 70]

Then, after differential encoding, they would get converted to

[64, -32, 10, 12, -4, -10, -20, 30]

3.1.8.1.7 RLGR Entropy Encoding

Each 64 x 64-pixel tile contains an array of 4,096 coefficients. This coefficient array is losslessly entropy-encoded using the RLGR algorithm ([ARLGR] section 3). The three tile components are assembled into an encoded tile packet (section 2.2.2.3.4.1). RLGR is an algorithm that adaptively switches between Run-Length encoding of zeros and Golomb-Rice coding of nonzero coefficients. There are two variants of the RLGR algorithm that can be used, RLGR1 and RLGR3. The decoder endpoint specifies its preference through the capabilities negotiation (see the **entropyBits** field in section 2.2.1.1.1.1.1). The pseudocode that describes the complete RLGR1/RLGR3 algorithm in detail is given in section 3.1.8.1.7.3.

3.1.8.1.7.1 RLGR1

The RLGR algorithm is described in [ARLGR]. In this specification, the parameter adaptation rules, which are central to the algorithm, are detailed in section [ARLGR] section 3. The specific adaptation values used by RLGR1 are given in the following two tables.

$P = 0$	Decrease k_R by setting $k_P = k_P - 2$
$P = 1$	no change k_R
$P > 1$	increase k_R by setting $k_P = k_P + p$

Figure 11: Adaptation rule for RLGR1/RLGR3 parameter k_R

$k = 0$	$u = 0 : k_P = k_P + 3$	
	$u > 0 : k_P = k_P - 3$	
$k > 0$	complete run	$k_P = k_P + 4$
	partial run	$k_P = k_P - 6$

Figure 12: Adaptation rule for RLGR1/RLGR3 main parameter k

The initial value for the parameters k_{RP} and k_P is 8, and the value of L is 8. Both the parameters k_{RP} and k_P are clipped to the range $[0, 80]$ after every update.

3.1.8.1.7.2 RLGR3

The core RLGR algorithm [ARLGR] switches between the Run-Length and the Golomb-Rice mode as a stream of data is encoded, based on the Run-Length parameter, k , as shown in figure "Adaptation rule for RLGR1/RLGR3 main parameter k " in section 3.1.8.1.7.2. The Golomb-Rice mode in the RLGR algorithm [ARLGR], operates by encoding one coefficient at a time and updating the Golomb-Rice parameter, k_R , as shown in figure "Adaptation rule for RLGR1/RLGR3 parameter k_R " in section 3.1.8.1.7.2. In RLGR3, the Run-Length mode parameter, k , and the Golomb-Rice parameter, k_R , are updated exactly as in RLGR1, but the Golomb-Rice mode is processed differently. Once the algorithm enters into the Golomb-Rice mode, RLGR3 takes the sum of the next two coefficients and Golomb-Rice encodes the sum and updates the parameters k and k_R as with RLGR1. After the sum is encoded, the

value of the first coefficient is emitted as binary code in the exact number of bits it takes to represent the sum. Pseudocode for Golomb-Rice mode in RLGR3 encode follows.

```
ENCODER GOLOMB-RICE MODE:

SUM = COEFF[n] + COEFF[n+1] // sum of the next two coefficients in the input stream
GOLOMB_RICE_ENCODE(SUM)    // Golomb-Rice encode the value of SUM
BINARY_ENCODE(COEFF[n])    // using LOG2(SUM) bits
UPDATE_RLGR_PARAMETERS(SUM) // update RLGR parameters (k,kR) based on SUM
```

The decoder follows the same sequence of steps as the encoder, as it decodes the encoded data. The pseudocode for the decoder in Golomb-Rice mode is given below.

```
DECODER GOLOMB-RICE MODE:

SUM = GOLOMB_RICE_DECODE() // decode the next value from the encoded stream
NBS = LOG2(SUM)            // number of bits in binary representation of SUM
COEFF[n] = BINARY_DECODE(NBS) // read next NBS bits from input stream as COEFF[n]
COEFF[n+1] = SUM - COEFF[n] // compute COEFF[n+1]
UPDATE_RLGR_PARAMETERS(SUM) // update RLGR parameters (k,kR) based on SUM
```

In general, RLGR3 encodes faster than RLGR1 but is marginally worse in terms of compression ratio.

3.1.8.1.7.3 RLGR1/RLGR3 Pseudocode

3.1.8.1.7.3.1 RLGR1/RLGR3 Decode

The following pseudocode sample shows how to decode a stream of bits encoded using the RLGR1/RLGR3 algorithm.

```
// Constants used within the RLGR1/RLGR3 algorithm

#define KP_MAX    (80) // max value for kp or krp
#define LSGR     (3)  // shift count to convert kp to k
#define UP_GR    (4)  // increase in kp after a zero run in RL mode
#define DN_GR    (6)  // decrease in kp after a nonzero symbol in RL mode
#define UQ_GR    (3)  // increase in kp after nonzero symbol in GR mode
#define DQ_GR    (3)  // decrease in kp after zero symbol in GR mode

//
// Gets (returns) the next nBits from the bitstream
// The layout of N bits in the bitstream with regard to a byte array is:
// [0..N] -> [0..7] (MSB..LSB), [8..15] (MSB..LSB) ...,
// where (MSB..LSB) denotes a byte.
//
UINT GetBits(
    UINT nBits
);

//
// From current output pointer, write "value", check and update *termsToDecode
//
VOID WriteValue(
    INT value,
    INT *termsToDecode
);
```

```

//
// From current output pointer, write next nZeroes terms with value 0;
// check and update *termsToDecode
//
VOID
WriteZeroes(
    UINT nZeroes,
    INT *termsToDecode
);

//
// Returns the least number of bits required to represent a given value
//
UINT
GetMinBits(
    UINT val// returns ceil(log2(val))
);

//
// Converts from (2 * magnitude - sign) to integer
//
INT
GetIntFrom2MagSign(
    UINT twoMs
);

//
// Update the passed parameter and clamp it to the range [0,KPMAX]
// Return the value of parameter right-shifted by LSGR
//
INT
UpdateParam(
    INT* param, // parameter to update
    INT deltaP // update delta
)
{
    *param += deltaP;// adjust parameter
    if (*param > KPMAX) *param = KPMAX;// max clamp
    if (*param < 0) *param = 0;// min clamp
    return (*param >> LSGR);
}

//
// Outputs the Golomb/Rice encoding of a non-negative integer
//
UINT
GetGRCode(
    INT* krp,
    INT* kr
)
{
    INT vk;
    UINT mag;

    // chew up/count leading 1s and escape 0
    for (vk=0;GetBits(1)==1;) {
        vk++;
    }

    // get next *kr bits, and combine with leading 1s
    mag = (vk<<*kr) | GetBits(*kr);

    // adjust kpr and kr based on vk

```

```

    if (!vk)
    {
        *kr = UpdateParam(kpr, -2);
    }
    else if (vk!=1)// at 1, no change!
    {
        *kr = UpdateParam(kpr, vk);
    }
}

return (mag);
}

//
// Routine that reads and decodes stream of RLGR data
//
VOID
RLGR_Decode(
    RLGR_MODE rlgrMode,    // RLGR1 || RLGR3
    INT termsToDecode
)
{
    // initialize the parameters
    INT k = 1;
    INT kp = k << LSGR;
    INT kr = 1;
    INT krp = kr << LSGR;

    while (termsToDecode > 0)
    {
        INT run;

        if (k)
        {
            // RL MODE
            while (GetBits(1) == 0)
            {
                // we have an RL escape "0", which translates to a run (1<<k) of zeros
                WriteZeroes(1<<k, &termsToDecode);
                k = UpdateParam(&kp,UpGR); // raise k and kp up because of zero run
            }

            if (termsToDecode > 0)
            {
                // next k bits will contain remaining run of zeros
                run = GetBits(k);
                WriteZeroes(run, &termsToDecode);
            }

            if (termsToDecode > 0)
            {
                // get nonzero value, starting with sign bit and
                // then GRCode for magnitude - 1
                UINT sign = GetBits(1);

                // magnitude - 1 was coded (because it was nonzero)
                INT mag = (INT)GetGRCode(&krp,&kr) + 1;

                WriteValue(sign ? -mag : mag, &termsToDecode);
                k = UpdateParam(&kp, -DnGR); // lower k and kp because of nonzero term
            }
        }
        else
        {
            // GR (GOLOMB-RICE) MODE
            UINT mag = GetGRCode(&krp, &kr); // values coded are 2*magnitude - sign

            if (rlgrMode == RLGR1)
            {

```



```

        if (!mag)
        {
            WriteValue(0, &termsToDecode);
            k = UpdateParam(&kp, UqGR); // raise k and kp due to zero
        }
        else
        {
            WriteValue(GetIntFrom2MagSign(mag), &termsToDecode);
            k = UpdateParam(&kp, -DqGR); // lower k and kp due to nonzero
        }
    }
else // rlgrMode == RLGR3
{
    // In GR mode FOR RLGR3, we have encoded the
    // sum of two (2*mag - sign) values

    // maximum possible bits for first term
    UINT nIdx = GetMinBits(mag);

    // decode val1 is first term's (2*mag - sign) value
    UINT val1 = GetBits(nIdx);

    // val2 is second term's (2*mag - sign) value
    UINT val2 = mag - val1;

    if (val1 && val2) {
        // raise k and kp if both terms nonzero
        k = UpdateParam(&kp, -2*DqGR);
    }
    else if (!val1 && !val2) {
        // lower k and kp if both terms zero
        k = UpdateParam(&kp, 2*UqGR);
    }

    WriteValue(GetIntFrom2MagSign(val1), &termsToDecode);
    WriteValue(GetIntFrom2MagSign(val2), &termsToDecode);
}
}
}

```

3.1.8.1.7.3.2 RLGR1/RLGR3 Encode

The following pseudocode sample shows how to encode a stream of input symbols using the RLGR1/RLGR3 algorithm.

```

// Constants used within the RLGR1/RLGR3 algorithm

#define KP_MAX    (80) // max value for kp or krp
#define L_SGR    (3) // shift count to convert kp to k
#define UP_GR    (4) // increase in kp after a zero run in RL mode
#define DN_GR    (6) // decrease in kp after a nonzero symbol in RL mode
#define UQ_GR    (3) // increase in kp after nonzero symbol in GR mode
#define DQ_GR    (3) // decrease in kp after zero symbol in GR mode

//
// Returns the next coefficient (a signed int) to encode, from the input stream
//
INT
GetNextInput();

//
// Emit bitPattern to the output bitstream.

```

```

// The bitPattern value represents a bit sequence that is generated by shifting
// new bits in from the right. If we take the binary representation of bitPattern,
// with N(numBits-1) being the leftmost bit position and 0 being the rightmost bit position,
// the mapping of bitPattern to the output bytes is as follows:
//
//      bitPattern[N..0] -> byte[MSB..LSB] .. byte[MSB..LSB]
//
VOID
OutputBits(
    INT numBits,      // number of bits in bitPattern
    INT bitPattern    // bit pattern
);

//
// Emit a bit (0 or 1), count number of times, to the output bitstream
//
VOID
OutputBit(
    INT count,        // number of times to emit the bit
    INT bit           // 0 or 1
);

//
// Returns the least number of bits required to represent a given value
//
UINT
GetMinBits(
    INT val           // returns ceil(log2(val))
);

//
// Converts the input value to (2 * abs(input) - sign(input)),
// where sign(input) = (input < 0 ? 1 : 0) and returns it
//
UINT
Get2MagSign(
    INT input         // input value
);

//
// Update the passed parameter and clamp it to the range [0,KPMAX]
// Return the value of parameter right-shifted by LSGR
//
INT
UpdateParam(
    INT* param,      // parameter to update
    INT deltaP       // update delta
)
{
    *param += deltaP;
    if (*param > KPMAX) *param = KPMAX;
    if (*param < 0) *param = 0;
    return (*param >> LSGR);
}

//
// Outputs the Golomb/Rice encoding of a non-negative integer
//
VOID
CodeGR(
    INT* krp,        // GR parameter, used and updated based on the input value
    UINT val         // input non-negative value to be encoded
)
{
    INT kr = *krp >> LSGR;

    // unary part of GR code

```

```

UINT vk = val >> kr;
OuputBit(vk, 1);
OutputBit(1, 0);

// remainder part of GR code, if needed
if (kr) {
    OutputBits(kr, val & ((1 << kr) - 1));
}

// update krp, only if it is not equal to 1
if (vk == 0) {
    UpdateParam(krp, -2);
}
else if (vk > 1) {
    UpdateParam(krp, vk);
}
}

//
// Routine that outputs a stream of RLGR1/RLGR3-encoded bits
//
VOID
RLGR_Encode(
    RLGR_MODE rlgrMode    // RLGR1 || RLGR3
)
{
    // initialize the parameters
    INT k = 1;
    INT kp = 1 << LSGR;
    INT kr = 1;
    INT krp = 1 << LSGR;

    // process all the input coefficients
    while (1)
    {
        INT input;

        if (k)
        {
            // RUN-LENGTH MODE

            // collect the run of zeros in the input stream
            INT numZeros = 0;
            while ((input = GetNextInput()) == 0) {
                ++ numZeros;
            }

            // emit output zeros
            INT runmax = 1 << k;
            while (numZeros >= runmax)
            {
                OutputBit(1, 0);           // output a zero bit
                numZeros -= runmax;
                k = UpdateParam(&kp, UpGR); // update kp, k
                runmax = 1 << k;
            }

            // output a 1 to terminate runs
            OuputBit(1, 1);

            // output the remaining run length using k bits
            OutputBits(k, numZeros);

            // encode the nonzero value using GR coding

            INT mag = abs(input);           // absolute value of input coefficient
            INT sign = (input < 0 ? 1 : 0); // sign of input coefficient

            OutputBit(1, sign);           // output the sign bit
        }
    }
}

```

```

CodeGR(&krcp, mag - 1); // output GR code for (mag - 1)

    k = UpdateParam(&kp, -DnGR);
}
else
{
    // GOLOMB-RICE MODE

    if (rlgrMode == RLGR1)
    {
        // RLGR1 variant

        // convert input to (2*magnitude - sign), encode using GR code
        UINT twoMs = Get2MagSign(GetNextInput());
        CodeGR(&krcp, twoMs);

        // update k, kp
        if (!twoMs) {
            k = UpdateParam(&kp, UqGR);
        }
        else {
            k = UpdateParam(&kp, -DqGR);
        }
    }
    else // rlgrMode == RLGR3
    {
        // RLGR3 variant

        // convert the next two input values to (2*magnitude - sign) and
        // encode their sum using GR code

        UINT twoMs1 = Get2MagSign(GetNextInput());
        UINT twoMs2 = Get2MagSign(GetNextInput());
        UINT sum2Ms = twoMs1 + twoMs2;

        CodeGR(&krcp, sum2Ms);

        // encode binary representation of the first input (twoMs1).
        OutputBits(GetMinBits(sum2Ms), twoMs1);

        // update k,kp for the two input values

        if (twoMs1 && twoMs2) {
            k = UpdateParam(&kp, -2*DqGR);
        }
        else if (!twoMs1 && !twoMs2) {
            k = UpdateParam(&kp, 2*UqGR);
        }
    }
}
}
}
}
}
}
}

```

3.1.8.2 Decoding

The functional stages involved in the decoding path are illustrated in the following figure. Compared to the encoding stages, the decoding stage operations are the operations of the encoding stage in reverse order.

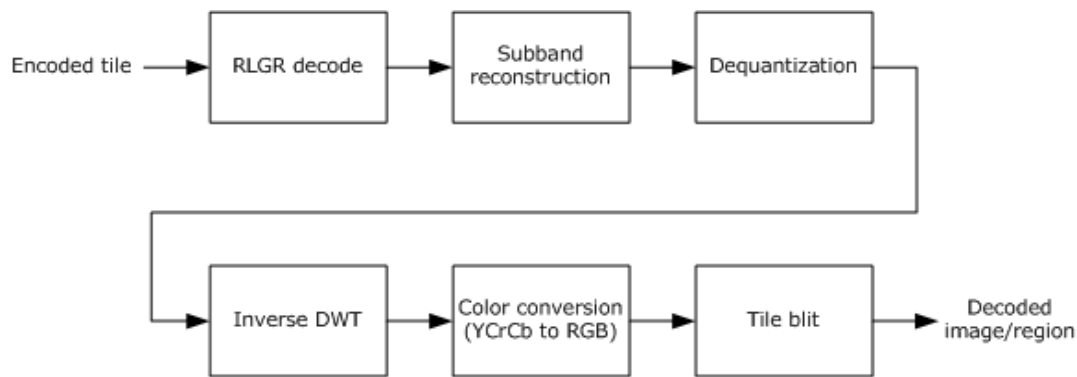


Figure 13: RemoteFX decoding stages

3.1.8.2.1 RLGR Entropy Decoding

The three encoded tile components (Y, Cb, and Cr) are entropy decoded independently. The algorithm used is either inverse RLGR1 or RLGR3, depending on which one was used for encoding. For details of the decoding process, refer to [ARLGR] (the encoding process is described in section 3.1.8.1.7).

3.1.8.2.2 Sub-Band Reconstruction

The RLGR entropy decoding stage results in the generation of an array of 4096 coefficients per tile component. The last 64 coefficients (which correspond to the LL3 sub-band) are differentially decoded. After this step, the coefficients are rearranged to form the sub-band structure shown in the figure in section 3.1.8.1.6 that describes the sub-band traversal order.

3.1.8.2.3 Dequantization

The quantization factors used for each sub-band are specified in the TS_RFX_TILE (section 2.2.2.3.4.1) structure. A scale value is computed from the quantization factor using the formula shown in the figure in section 3.1.8.1.5. Each coefficient in the appropriate sub-band is dequantized by multiplying it with this scale value and rounded.

3.1.8.2.4 Inverse DWT

Each tile component undergoes three levels of inverse discrete wavelet transformation (IDWT). The 5/3 lifting equations used for the IDWT are presented in the following figure.

$$\begin{array}{cc}
 X[2n] = L[n] - \left\lfloor \frac{H[n-1] + H[n] + 1}{2} \right\rfloor & X[2n+1] = 2 * H[n] + \left\lfloor \frac{X[2n] + X[2n+2]}{2} \right\rfloor \\
 \text{a. Even coefficients} & \text{b. Odd coefficients}
 \end{array}$$

Figure 14: Lifting equations for inverse DWT

This stage results in the decoded Y, Cb, and Cr components for the tile.

3.1.8.2.5 Color Conversion (YCbCr to RGB)

The Y-component is first level shifted up by 128 so that it falls in the [0.0, 255.0] range. The three YCbCr components are then transformed to the RGB color space by using the following transform matrix.

$$[R\ G\ B] = [Y\ Cb\ Cr] \begin{bmatrix} 1.0 & 1.0 & 1.0 \\ 0.0 & -0.343730 & 1.769905 \\ 1.402525 & -0.714401 & 0.000013 \end{bmatrix}$$

Figure 15: The YCbCr to RGB conversion matrix

3.1.8.2.6 Reconstructed Frame

Each decoded RGB tile is intersected and clipped against the set of rectangles from the **rects** field of the TS_RFX_REGION (section 2.2.2.3.3) message. This gives a set of clipped rectangles, which are blitted to the appropriate location on the screen. Doing this for all the tiles present in the TS_RFX_TILESET (section 2.2.2.3.4) message will result in the reconstructed frame.

There are two reasons for doing this tile-region intersection. One is that the changed region on the screen, which comprises a set of arbitrary-sized rectangles, is converted to 64x64 tiles (section 3.1.8.1.1) and these tiles can extend beyond the boundary of the rectangles of the change region. The second reason is that the differencing operation (section 3.1.8.1.2) could cull some of these tiles and the decoder will not receive these tiles within the TS_RFX_TILESET message.

3.1.8.3 RemoteFX Stream

A RemoteFX stream is defined to be the set of all of the codec messages, sent sequentially from an encoder endpoint to a decoder endpoint. There is no message to signify the end of a stream. If the RemoteFX codec is to be used as an image codec, the stream only contains messages pertaining to a single image. If the RemoteFX codec is to be used as a video codec, the stream can contain an arbitrary number of images.

3.1.8.3.1 Encode Message Sequencing

An encoded RemoteFX stream is composed of a sequence of encode messages that are described in section 2.2.2. The sequence of encode messages is encapsulated inside an Extended Bitmap Data structure ([MS-RDPBCGR] section 2.2.9.2.1.1), which is encapsulated in a Stream Surface Bits Surface Command ([MS-RDPBCGR] section 2.2.9.2.2).

All encode messages start with a TS_RFX_BLOCKT (section 2.2.2.1.1) structure. When parsing the message blocks, the **blockLen** field of a TS_RFX_BLOCKT MUST be used to obtain the length of the data block. This length MUST NOT be less than the length based on the **blockType** field of the TS_RFX_BLOCKT.

The RemoteFX stream is structured as a set of header messages followed by encoded data messages. The header messages contain global information necessary to decompress the data messages. The header messages are described in section 2.2.2.2, and the data messages are described in section 2.2.2.3. The stream MUST start with the header messages and any of these headers can appear in the stream at a later stage. The header messages can be repeated.

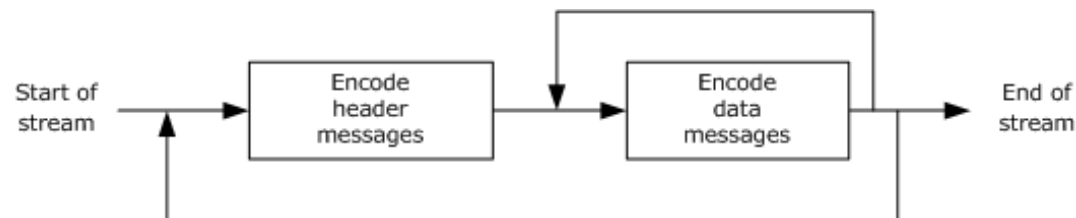


Figure 16: Message sequencing in the RemoteFX stream

The first message in a RemoteFX stream MUST be the TS_RFX_SYNC (section 2.2.2.2.1) message. This message MUST be followed by the TS_RFX_CHANNELS (section 2.2.2.2.3), TS_RFX_CODEC_VERSIONS (section 2.2.2.2.2), and TS_RFX_CONTEXT (section 2.2.2.2.4) messages, as shown in the figure that follows. It is permissible for these three messages to occur in any order. These three messages contain all of the information needed to initialize the decoder.

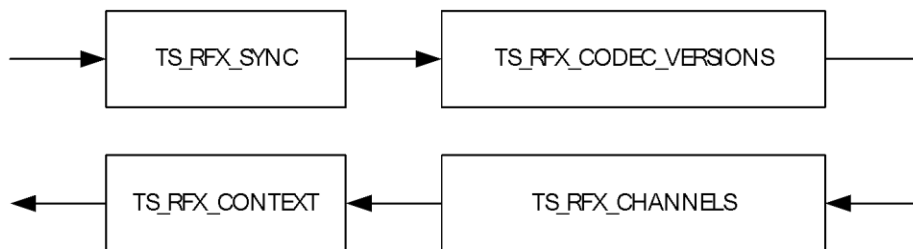


Figure 17: Generation of RemoteFX encode header messages

The TS_RFX_CHANNELS message MUST contain a single channel, and the frame dimensions of this channel are given by the **width** and **height** fields of the corresponding TS_RFX_CHANNEL structure (section 2.2.2.1.3). The decoder MUST check the TS_RFX_CODEC_VERSIONS and TS_RFX_CONTEXT messages to determine whether it is compatible with the RemoteFX codec version and the encoding properties listed in these messages. If the decoder cannot support the codec version, the channel frame dimensions, or any of the listed encoding properties, it MUST reject the encoded stream.

The data associated with each encoded frame or image is always bracketed by the TS_RFX_FRAME_BEGIN (section 2.2.2.3.1) and TS_RFX_FRAME_END (section 2.2.2.3.2) messages. The sequence of blocks that comprise a frame are described in the figure that follows. There MUST only be one TS_RFX_REGION (section 2.2.2.3.3) message per frame and one TS_RFX_TILESET (section 2.2.2.3.4) message per TS_RFX_REGION. All of the messages corresponding to a frame associated with a given channel MUST occur consecutively within the codec byte-stream. The messages corresponding to frames from two different channels MUST NOT be interleaved.

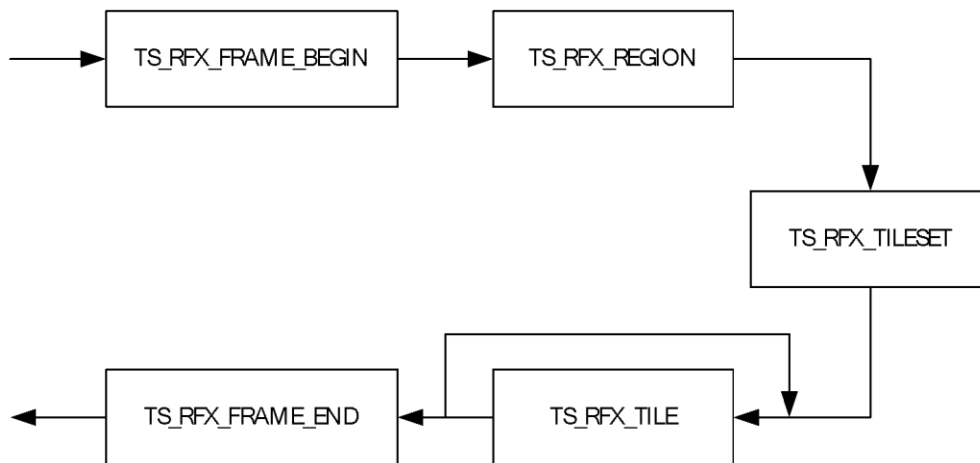


Figure 18: Generation of RemoteFX encode data messages

4 Protocol Examples

4.1 Sample Use Case

Consider the case of a remote endpoint system with one monitor configured to use a display resolution of 1280 x 1024 pixels. In this scenario, there is one instance of the RemoteFX encoder running on the remote system. The encoder is configured to use one channel with frame buffer dimensions of 1280 x 1024. As the contents of the screen are updated over time, the changes are captured, and the affected regions in the frame buffer corresponding to the bounding rectangles of the updated areas are fed as input to the encoder to compress.

The encoder examines the update regions and determines the set of tiles that correspond to those regions. The tile grid is anchored to the frame at (0, 0) and aligned to the tile size. This means that as an update region (for example, a window being dragged) moves around on the screen, the number of tiles corresponding to that update region can vary. In the figure that follows, the regions A and B are the same size (3 x 3) but they correspond to 9 and 16 tiles respectively due to their location on the screen. In the case of border tiles where the update region is not aligned to the tile grid, the area of the tile outside of the actual update region can contain arbitrary data and hence cannot be relied upon to contain valid image data. In the figure that follows, region B is not aligned to the tile grid and hence the perimeter tiles only contain a partial image.

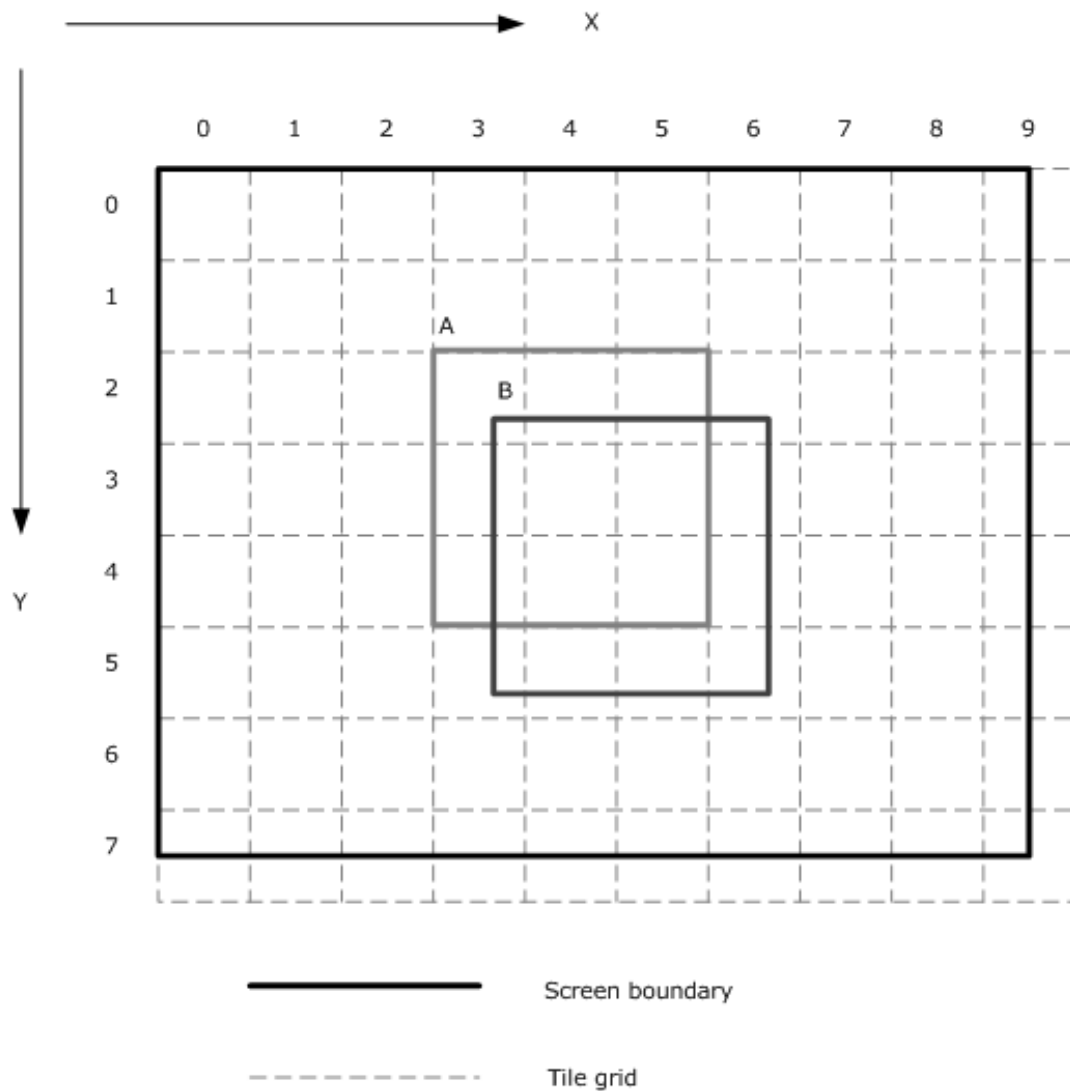


Figure 19: Update region to tile grid mapping

The single monitor configuration results in a `TS_RFX_CHANNELS` (section 2.2.2.2.3) header message that specifies one channel set to 1280 x 1024. For every frame that is encoded due to region updates, the message sequence that results is described in the encode messages diagram in section 3.1.8.3.1. The `TS_RFX_REGION` (section 2.2.2.3.3) message contains the list of updated rectangles, and the accompanying `TS_RFX_TILESET` (section 2.2.2.3.4) message contains the corresponding set of tiles. The `TS_RFX_TILE` (section 2.2.2.3.4.1) structure contains the location of the tile in the frame. Conceptually, the decoder can decode each tile, blit it to the proper location in a temporary frame buffer, and then blit all of the updated rectangles to an output frame buffer.

4.2 Annotated RemoteFX Messages

4.2.1 Capabilities Messages

The following is an annotated network capture of the `TS_RFX_CLNT_CAPS_CONTAINER` message (section 2.2.1.1).

```
00000000 31 00 00 00 01 00 00 00 25 00 00 00 c0 cb 08 00
00000010 00 00 01 00 c1 cb 1d 00 00 00 01 c0 cf 02 00 08
00000020 00 00 01 40 00 00 01 01 01 00 01 40 00 00 01 01
00000030 04
```

TS_RFX_CAPS message (section 2.2.1.1.1):

```
c0 cb -> TS_RFX_CAPS::blockType = CBY_CAPS
08 00 00 00 -> TS_RFX_CAPS::blockLen = 8
01 00 -> TS_RFX_CAPS::numCapsets = 1
```

TS_RFX_CAPSET message (section 2.2.1.1.1.1):

```
c1 cb -> TS_RFX_CAPS::TS_RFX_CAPSET[0]::blockType = CBY_CAPSET
1d 00 00 00 -> TS_RFX_CAPS::TS_RFX_CAPSET[0]::blockLen = 29
01 -> TS_RFX_CAPS::TS_RFX_CAPSET[0]::codecId = 1
c0 cf -> TS_RFX_CAPS::TS_RFX_CAPSET[0]::capsetType = CLY_CAPSET
02 00 -> TS_RFX_CAPS::TS_RFX_CAPSET[0]::numIcaps = 2
08 00 -> TS_RFX_CAPS::TS_RFX_CAPSET[0]::icapLen = 8
```

TS_RFX_ICAP message (section 2.2.1.1.1.1.1):

```
00 01 -> TS_RFX_CAPS::TS_RFX_CAPSET[0]::TS_RFX_ICAP[0]::version = CLW_VERSION_1_0
40 00 -> TS_RFX_CAPS::TS_RFX_CAPSET[0]::TS_RFX_ICAP[0]::tileSize = 64
00 -> TS_RFX_CAPS::TS_RFX_CAPSET[0]::TS_RFX_ICAP[0]::flags = VIDEO_MODE (0)
01 -> TS_RFX_CAPS::TS_RFX_CAPSET[0]::TS_RFX_ICAP[0]::colConvBits = CLW_COL_CONV ICT
01 -> TS_RFX_CAPS::TS_RFX_CAPSET[0]::TS_RFX_ICAP[0]::transformBits = CLW_XFORM_DWT_53_A
01 -> TS_RFX_CAPS::TS_RFX_CAPSET[0]::TS_RFX_ICAP[0]::entropyBits = CLW_ENTROPY_RLGR1
00 01 -> TS_RFX_CAPS::TS_RFX_CAPSET[0]::TS_RFX_ICAP[1]::version = CLW_VERSION_1_0
40 00 -> TS_RFX_CAPS::TS_RFX_CAPSET[0]::TS_RFX_ICAP[1]::tileSize = 64
00 -> TS_RFX_CAPS::TS_RFX_CAPSET[0]::TS_RFX_ICAP[1]::flags = VIDEO_MODE (0)
01 -> TS_RFX_CAPS::TS_RFX_CAPSET[0]::TS_RFX_ICAP[1]::colConvBits = CLW_COL_CONV ICT
01 -> TS_RFX_CAPS::TS_RFX_CAPSET[0]::TS_RFX_ICAP[1]::transformBits = CLW_XFORM_DWT_53_A
04 -> TS_RFX_CAPS::TS_RFX_CAPSET[0]::TS_RFX_ICAP[1]::entropyBits = CLW_ENTROPY_RLGR3
```

The client has specified support for both RLGR1 and RLGR3, by including two TS_RFX_ICAP elements. The server can pick either of the two and use the corresponding encoding properties, as described in section 3.1.5.1.

The following is an annotated dump of the TS_RFX_SRVR_CAPS_CONTAINER message (section 2.2.1.2).

```
00000000 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00
00000010 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00
00000020 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00
00000030 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00
```

The server has sent an array of bytes set to zero as described in section 2.2.1.2.

4.2.2 Encode Header Messages

The following is an annotated network capture of the Encode Header Messages (section 2.2.2.2).

```
00000000 c0 cc 0c 00 00 00 ca ac cc ca 00 01 c3 cc 0d 00
00000010 00 00 01 ff 00 40 00 28 a8 c1 cc 0a 00 00 00 01
```

```
00000020 01 00 01 c2 cc 0c 00 00 00 01 00 40 00 40 00
```

TS_RFX_SYNC message (section 2.2.2.2.1):

```
c0 cc -> TS_RFX_SYNC::BlockT::blockType = WBT_SYNC
0c 00 00 00 -> TS_RFX_SYNC::BlockT::blockLen = 12
ca ac cc ca -> TS_RFX_SYNC::magic = WF_MAGIC
00 01 -> TS_RFX_SYNC::version = 0x0100
```

TS_RFX_CONTEXT message (section 2.2.2.2.4):

```
c3 cc -> TS_RFX_CONTEXT::CodecChannelT::BlockT::blockType = WBT_CONTEXT
0d 00 00 00 -> TS_RFX_CONTEXT::CodecChannelT::BlockT::blockLen = 13
01 -> TS_RFX_CONTEXT::CodecChannelT::codecId = 1
ff -> TS_RFX_CONTEXT::CodecChannelT::channelId = 255
00 -> TS_RFX_CONTEXT::ctxId = 0
40 00 -> TS_RFX_CONTEXT::tileSize = 64
28 a8 -> TS_RFX_CONTEXT::properties
TS_RFX_CONTEXT::properties::flags = VIDEO_MODE (0)
TS_RFX_CONTEXT::properties::cct = COL_CONV_ICT (1)
TS_RFX_CONTEXT::properties::xft = CLW_XFORM_DWT_53_A (1)
TS_RFX_CONTEXT::properties::et = CLW_ENTROPY_RLGR3 (4)
TS_RFX_CONTEXT::properties::qt = SCALAR_QUANTIZATION (1)
TS_RFX_CONTEXT::properties::r = RESERVED
```

TS_RFX_CODEC_VERSIONS message (section 2.2.2.2.2):

```
c1 cc -> TS_RFX_CODEC_VERSIONS::BlockT::blockType = WBT_CODEC_VERSION
0a 00 00 00 -> TS_RFX_CODEC_VERSIONS::BlockT::blockLen = 10
01 -> TS_RFX_CODEC_VERSIONS::numCodecs = 1
01 -> TS_RFX_CODEC_VERSIONS::TS_RFX_CODEC_VERSIONT::codecId = 1
00 01 -> TS_RFX_CODEC_VERSIONS::TS_RFX_CODEC_VERSIONT::version 0x0100
```

TS_RFX_CHANNELS message (section 2.2.2.2.3):

```
c2 cc -> TS_RFX_CHANNELS::BlockT::blockType = WBT_CHANNELS
0c 00 00 00 -> TS_RFX_CHANNELS::BlockT::blockLen = 12
01 -> TS_RFX_CHANNELS::numChannels = 1
00 -> TS_RFX_CHANNELS::TS_RFX_CHANNELT::channelId = 0
40 00 -> TS_RFX_CHANNELS::TS_RFX_CHANNELT::width = 64
40 00 -> TS_RFX_CHANNELS::TS_RFX_CHANNELT::height = 64
```

The server has chosen to encode using RLGR3 (TS_RFX_CONTEXT) and specified one channel with dimensions of 64x64 (TS_RFX_CHANNELS).

4.2.3 Encode Data Messages

The following is an annotated network capture of the Encode Data Messages (section 2.2.2.3).

```
00000000 c4 cc 0e 00 00 00 01 00 00 00 00 01 00 c6 cc
00000010 17 00 00 00 01 00 cd 01 00 00 00 00 40 00 40
00000020 00 c1 ca 01 00 c7 cc d9 03 00 00 01 00 c2 ca 00
00000030 00 51 50 01 40 01 00 be 03 00 00 66 66 77 88 98
00000040 c3 ca be 03 00 00 00 00 00 00 00 00 26 01 3d
00000050 01 48 01 19 82 1d 10 62 9d 28 85 2c a2 14 b2 88
00000060 52 ca 21 4b 28 85 2c a2 14 b2 88 52 ca 21 4b 28
00000070 85 2c a2 14 b2 88 52 ca 21 4b 28 85 2c a2 14 b2
```

```
00000080 88 52 ca 21 4b 28 85 2c a2 14 b2 88 52 ca 21 4b
00000090 28 85 2c a2 14 b2 88 52 ca 21 4b 28 85 2c a2 14
000000A0 b2 88 52 ca 21 4b 28 85 2c a2 14 b0 00 20 f4 40
000000B0 0c c1 1e 20 26 22 20 33 23 c4 23 88 86 50 f1 22
000000C0 68 4c 91 85 10 34 4c 84 78 a2 0d 13 21 1e 29 06
000000D0 89 90 8f 14 83 44 f4 23 c5 20 d1 3d 08 f1 48 34
000000E0 4f 42 3c 52 0d 13 d0 8f 14 83 44 f4 23 c5 20 d1
000000F0 3d 08 f1 48 34 4f 42 3c 52 0d 13 d0 8f 14 83 44
00000100 f4 23 c5 20 00 08 47 70 15 02 e0 7f e4 9d c2 51
00000110 71 f4 99 c9 57 ff 32 87 9d 17 d6 50 6e 06 2f ac
00000120 a0 9c 0c 5f 59 41 38 18 be b2 82 70 31 7d 65 00
00000130 00 10 ff 9c 33 41 f1 c4 b0 3c ff a2 15 bd 7b ea
00000140 86 9b 5f fc 78 8c f5 ed a8 68 da fd 3c 45 7a f4
00000150 d4 34 6d 7e 9e 22 bd 7a 6a 1a 36 bf 4f 11 5e bd
00000160 35 0d 1b 5f a7 88 af 5e 9a 86 8d af d3 c4 57 af
00000170 4d 43 46 d7 e9 e2 20 30 00 1b 04 7f 04 31 5f c2
00000180 94 af 05 29 5e 0a 52 bc 14 a5 78 29 25 78 29 25
00000190 78 29 25 68 52 4a f0 52 4a f0 52 4a d0 a4 95 e0
000001A0 a4 95 e0 a4 95 a1 49 2b c1 49 2b c1 49 2b 42 92
000001B0 57 82 92 57 82 92 56 85 24 af 05 24 af 05 24 ad
000001C0 0a 49 5e 0a 49 5e 0a 49 5a 14 92 bc 14 92 bc 14
000001D0 92 b4 29 25 78 29 25 78 00 02 0f 02 00 ac 13 fc
000001E0 c0 0a 20 10 2b 27 f9 80 b0 08 aa 3d 60 8c 0b 24
000001F0 ff 30 80 c0 aa 13 fc c2 03 05 90 9f e6 10 18 2c
00000200 84 ff 30 81 82 c8 4f f3 08 18 2c 84 ff 31 03 05
00000210 90 9f ff d8 40 60 59 09 fe 61 01 81 64 27 f9 84
00000220 06 0b 21 3f cc 20 30 59 09 fe 61 03 05 90 9f e6
00000230 10 30 59 09 fe 62 00 00 42 15 00 10 15 01 fe 20
00000240 84 d5 01 0a 8f f1 40 33 78 17 f9 c2 03 83 01 78
00000250 e1 01 c1 00 bc 70 80 e0 80 5e 38 40 70 40 2f 1c
00000260 20 38 20 17 8e 10 00 00 87 d5 08 70 ef 81 a2 d8
00000270 ff ff ff fb d1 2d 4e a6 ce 20 a4 ef 05 78 35 3a
00000280 9b 38 82 93 bc 15 e0 d4 ea 66 71 05 27 78 2b c1
00000290 29 d4 cc e2 0a 4e f0 57 82 53 a9 99 c4 14 9d e0
000002A0 af 04 a7 53 33 88 29 3b c1 5e 09 4e a6 67 10 52
000002B0 77 82 bc 00 18 00 1b fc 11 c1 0f 4a c1 4f 4a c1
000002C0 4f 4a a1 4d 95 42 9e 95 42 9e 95 42 9b 2a 85 3d
000002D0 2a 85 3d 2a 85 36 55 0a 7a 55 0a 7a 55 0a 6c aa
000002E0 14 f4 aa 14 f4 aa 14 d9 54 29 e9 54 29 e9 54 29
000002F0 b2 a8 53 d2 a8 53 d2 a8 53 65 50 a7 a5 50 a7 a5
00000300 50 a6 ca a1 4f 4a a1 4f 4a a1 4d 95 42 9e 95 42
00000310 9e 95 42 9b 2a 80 00 41 e3 80 3f e2 09 9c 00 22
00000320 07 03 e1 26 70 06 07 1f 04 67 00 61 df 02 67 00
00000330 0c 3b fe 01 33 80 06 1d ff 00 99 c0 03 0e ff 80
00000340 4c e0 01 87 7f c0 26 70 00 c3 bf e0 13 38 00 61
00000350 df f0 09 9c 00 30 ef f8 04 ce 00 18 77 fc 02 67
00000360 00 0c 3b fe 01 33 80 06 1d ff 00 99 c0 03 0e ff
00000370 80 4c e0 01 87 7f c0 26 70 00 00 08 3c 20 1f f1
00000380 00 f0 05 02 93 84 3d 20 f0 52 81 c7 ff ff ea 54
00000390 01 80 05 f5 4a 80 30 00 b6 a5 40 18 00 5f 54 a8
000003A0 03 00 0b ea 95 00 60 01 6d 4a 80 30 00 00 22 3f
000003B0 ba 08 10 2b 1f f2 20 3e 49 9c 1f 6e 0f 5a 0f fb
000003C0 18 46 ae 27 9b 83 cb 41 f3 18 46 ae 27 9b 83 c5
000003D0 a0 f9 8c 22 d7 13 8d c1 e2 d0 7c c6 11 6b 89 c6
000003E0 e0 f1 68 3e 63 08 b5 c4 e3 70 78 b4 1f 31 84 5a
000003F0 e2 71 b8 3c 5a 0f 98 c2 2d 71 30 83 c0 00 c5 cc
00000400 08 00 00 00 01 00
```

TS_RFX_FRAME_BEGIN message (section 2.2.2.3.1):

```
c4 cc -> TS_RFX_FRAME_BEGIN::CodecChannelT::blockType = WBT_FRAME_BEGIN
0e 00 00 00 -> TS_RFX_FRAME_BEGIN::CodecChannelT::blockLen = 14
01 -> TS_RFX_FRAME_BEGIN::CodecChannelT::codecId = 1
00 -> TS_RFX_FRAME_BEGIN::CodecChannelT::channelId = 0
00 00 00 00 -> TS_RFX_FRAME_BEGIN::frameIdx = 0
01 00 -> TS_RFX_FRAME_BEGIN::numRegions = 1
```

TS_RFX_REGION message (section 2.2.2.3.3):

```
c6 cc -> TS_RFX_REGION::CodecChannelT::blockType = WBT_REGION
17 00 00 00 -> TS_RFX_REGION::CodecChannelT::blockLen = 23
01 -> TS_RFX_REGION::CodecChannelT::codecId = 1
00 -> TS_RFX_REGION::CodecChannelT::channelId = 0
0d -> TS_RFX_REGION::regionFlags
TS_RFX_REGION::regionFlags::lrf = 1
01 00 -> TS_RFX_REGION::numRects = 1
00 00 -> TS_RFX_REGION::TS_RFX_RECT::x = 0
00 00 -> TS_RFX_REGION::TS_RFX_RECT::y = 0
40 00 -> TS_RFX_REGION::TS_RFX_RECT::width = 64
40 00 -> TS_RFX_REGION::TS_RFX_RECT::height = 64
c1 ca -> TS_RFX_REGION::regionType = CBT_REGION
01 00 -> TS_RFX_REGION::numTilesets = 1
```

TS_RFX_TILESET message (section 2.2.2.3.4):

```
c7 cc -> TS_RFX_TILESET::CodecChannelT::blockType = WBT_EXTENSION
d9 03 00 00 -> TS_RFX_TILESET::CodecChannelT::blockLen = 985
01 -> TS_RFX_TILESET::codecId = 1
00 -> TS_RFX_TILESET::channelId = 0
c2 ca -> TS_RFX_TILESET::subtype = CBT_TILESET
00 00 -> TS_RFX_TILESET::idx = 0x00
51 50 -> TS_RFX_TILESET::properties
TS_RFX_TILESET::properties::lt = TRUE (1)
TS_RFX_TILESET::properties::flags = VIDEO_MODE (0)
TS_RFX_TILESET::properties::cct = COL_CONV ICT (1)
TS_RFX_TILESET::properties::xft = CLW_XFORM_DWT_53_A (1)
TS_RFX_TILESET::properties::et = CLW_ENTROPY_RLGR3 (4)
TS_RFX_TILESET::properties::qt = SCALAR_QUANTIZATION (1)
01 -> TS_RFX_TILESET::numQuant = 1
40 -> TS_RFX_TILESET::tileSize = 64
01 00 -> TS_RFX_TILESET::numTiles = 1
df 03 00 00 -> TS_RFX_TILESET::tilesDataSize = 991
66 66 77 88 98 -> TS_RFX_TILESET::quantVals
TS_RFX_TILESET::quantVals::LL3 = 6
TS_RFX_TILESET::quantVals::LH3 = 6
TS_RFX_TILESET::quantVals::HL3 = 6
TS_RFX_TILESET::quantVals::HH3 = 6
TS_RFX_TILESET::quantVals::LH2 = 7
TS_RFX_TILESET::quantVals::HL2 = 7
TS_RFX_TILESET::quantVals::HH2 = 8
TS_RFX_TILESET::quantVals::LH1 = 8
TS_RFX_TILESET::quantVals::HL1 = 8
TS_RFX_TILESET::quantVals::HH1 = 9
```

TS_RFX_TILE message (section 2.2.2.3.4.1):

```
c3 ca -> TS_RFX_TILE::BlockT::blockType = CBT_TILE
be 03 -> TS_RFX_TILE::BlockT::blockLen = 958
00 -> TS_RFX_TILE::quantIdxY = 0
00 -> TS_RFX_TILE::quantIdxCb = 0
00 -> TS_RFX_TILE::quantIdxCr = 0
00 00 -> TS_RFX_TILE::xIdx = 0
00 00 -> TS_RFX_TILE::yIdx = 0
26 01 -> TS_RFX_TILE::YLen = 294
3d 01 -> TS_RFX_TILE::CbLen = 317
48 01 -> TS_RFX_TILE::CrLen = 328
00000053:00000178 -> TS_RFX_TILE::YData
00000179:000002b5 -> TS_RFX_TILE::CbData
000002b6:000003fd -> TS_RFX_TILE::CrData
```

TS_RFX_FRAME_END message (section 2.2.2.3.2):

```
c5 cc -> TS_RFX_FRAME_END::CodecChannelT::blockType = WBT_FRAME_END
08 00 00 00 -> TS_FRAME_END::CodecChannelT::blockLen = 14
01 -> TS_FRAME_END::CodecChannelT::codecId = 1
00 -> TS_FRAME_END::CodecChannelT::channelId = 0
```

The server has sent a frame that is delineated by TS_RFX_FRAME_BEGIN and TS_RFX_FRAME_END messages. The frame contains a single region, which has a single tileset. This tileset, in turn, consists of one 64x64 tile. The compressed sizes, in bytes, for the YCbCr components of this tile are (294, 317, 328).

4.2.4 Sample Decode Data Flow Sequence

The following sections present a sequence of annotated dumps of an encoded tile as it goes through the steps of the decoding algorithm. The sequence starts with the TS_RFX_TILESET (section 2.2.2.3.4) message, which contains the encoded tile data, and ends with the resulting decoded 64x64 XRGB image.

4.2.4.1 Input TS_RFX_TILESET Message

The following is an annotated dump of a TS_RFX_TILESET (section 2.2.2.3.4) message containing a single encoded 64x64 tile.

```
00000000 c7 cc 3e 0b 00 00 01 01 c2 ca 00 00 51 50 01 40
00000010 01 00 23 0b 00 00 66 66 77 88 98 c3 ca 23 0b 00
00000020 00 00 00 00 00 00 00 00 ae 03 cf 03 93 03 c0 01
00000030 01 15 48 99 c7 41 a1 12 68 11 dc 22 29 74 ef fd
00000040 20 92 e0 4e a8 69 3b fd 41 83 bf 28 53 0c 1f e2
00000050 54 0c 77 7c a3 05 7c 30 d0 9c e8 09 39 1a 5d ff
00000060 e2 01 22 13 80 90 87 d2 9f fd fd 50 09 0d 24 a0
00000070 8f ab fe 3c 04 84 c6 9c de f8 80 c3 22 50 af 4c
00000080 2a 7f fe e0 5c a9 52 8a 06 7d 3d 09 03 65 a3 af
00000090 d2 61 1f 72 04 50 8d 3e 16 4a 3f ff fd 41 42 87
000000A0 24 37 06 17 2e 56 05 9c 1c b3 84 6a ff fb 43 8b
000000B0 a3 7a 32 43 28 e1 1f 50 54 fc ca a5 df ff 08 04
000000C0 48 15 61 d9 76 43 f8 2a 07 e9 65 f7 c6 89 2d 40
000000D0 a1 c3 35 8d f5 ed f5 91 ae 2f cc 01 ce 03 48 c0
000000E0 8d 63 f4 fd 50 20 2d 0c 9b b0 8d 13 c0 8a 09 52
000000F0 1b 02 6e 42 3b d0 13 4e 84 01 26 88 6a 04 84 34
00000100 2a a5 00 ba 54 48 58 ea 54 02 b4 1d a7 fa 47 82
00000110 ec 7a 77 fd 00 92 66 62 04 a6 9b ff f6 80 c0 69
00000120 01 c2 3e 90 14 20 2f fc 40 96 59 58 0c b1 13 68
00000130 20 2e b5 f5 df ff f8 fc 56 88 60 24 53 b5 41 46
00000140 5f f8 f1 7e de 4a 08 97 e0 55 03 8f e5 75 61 03
00000150 f2 e1 90 01 a2 8e 88 04 98 05 93 6b ff ea c0 60
00000160 a1 88 04 49 bf f7 ff 8c b4 59 90 80 30 64 53 ff
00000170 f5 c4 48 da da cb 80 38 61 57 b2 af 00 e8 7b 46
00000180 e6 d8 02 03 8a 06 18 14 32 83 d0 8a ee bc 81 b4
00000190 28 c4 7f f9 a1 69 00 91 c5 51 ff fe 3f e9 f1 70
000001A0 30 24 10 a7 cb 1f 8a 24 93 ed 83 00 36 20 d1 50
000001B0 e7 d8 ad 58 20 09 22 80 d0 ca 5d 1a d7 f1 60 75
000001C0 2a f2 d7 f8 c0 32 45 86 00 43 01 fe 80 f7 42 81
000001D0 74 84 4c a1 60 4c cb 14 58 01 4d 18 a1 aa 47 0e
000001E0 11 1a 40 7d 41 02 e3 30 cd 33 81 34 06 46 83 a2
000001F0 47 1c 04 aa 20 12 a2 8b 81 c4 9c a0 2e 06 32 f8
00000200 86 85 01 e8 70 f9 46 09 6a bf e0 f5 a4 c8 78 e7
00000210 d2 97 0b bc 3c 97 ff d5 40 94 b2 c1 18 18 11 1f
00000220 43 c1 18 c3 83 7f 9a 31 c4 8e 70 56 da f6 17 de
00000230 d1 02 0d 42 21 13 dc 3a 3c 40 9e f4 01 43 ea 0c
00000240 46 73 a2 7b 0c 80 ff e4 ad 2e 09 b4 63 b0 8c 54
00000250 59 fa ac 76 36 10 05 f0 98 88 83 42 00 20 71 cc
00000260 c1 a9 97 3e 5a 0d 04 50 92 23 20 0d 0a 1c 57 d7
```

00000270 ff 10 f2 03 0f 58 1b a5 11 f8 f1 b4 12 db 1a 48
00000280 56 1f e3 c7 50 e9 16 b4 bc b0 40 93 ea b5 5b 2f
00000290 fc 50 0a 6f cc 25 e0 06 ab 5f 24 fe 8b cb 42 43
000002A0 7e 69 02 25 c7 38 00 6e e5 80 a8 a4 30 44 15 8f
000002B0 e9 0c d3 a6 c2 14 34 4a fe 03 7f 06 a5 91 02 54
000002C0 f1 a1 a1 53 bf 11 f2 8f 83 67 80 09 08 12 3f fd
000002D0 44 91 c2 83 30 50 07 02 82 4d 31 34 06 41 79 6f
000002E0 f0 cc 03 79 00 2c 05 24 ec 8d 29 15 af 44 c8 eb
000002F0 4f e1 fd f1 41 48 81 08 af fe 51 48 ce e7 f9 b6
00000300 0a 30 83 11 f0 0c 3b d2 a6 24 24 ef 25 fa 5a 3e
00000310 92 3e 79 0e 35 61 c8 aa 1c 2e 9a 27 7f ff f0 7d
00000320 30 5b bc 91 ff fe 43 24 28 66 a7 70 99 28 6e 2b
00000330 18 2b d4 a1 77 3b 96 9f f7 eb be 1f 04 34 75 84
00000340 31 42 4c 65 aa 09 50 a0 c4 51 31 d3 26 3a 1b f4
00000350 6e 4a 4e 17 25 84 78 7d 2c 3f 46 18 ca 5f f9 e5
00000360 38 2f d8 71 94 94 e2 cc a3 15 b0 da a9 cb 58 e4
00000370 18 77 93 8a 51 c6 23 c4 4e 6d d9 14 1e 9b 8d bc
00000380 cb 9d c4 18 05 f5 a9 29 f8 6d 29 38 c7 44 e5 3a
00000390 cd ba 61 98 4a 57 02 96 42 02 d9 37 11 de 2d d4
000003A0 3f fe 61 e7 33 d7 89 4a dd b0 34 47 f4 dc ad aa
000003B0 c9 9d 7e 6d 4b cc dc 17 89 57 fd bb 37 75 47 5a
000003C0 ec 2c 6e 3c 15 92 54 64 2c ab 9e ab 2b dd 3c 66
000003D0 a0 8f 47 5e 93 1a 37 16 f4 89 23 00 00 b0 33 56
000003E0 fa 14 1e ff 48 7a 7e 0f 10 1f f4 91 c8 10 56 84
000003F0 ff 08 ec b4 ac 0e 0f ff ad c5 e0 1a 2f 82 04 9f
00000400 91 c2 0e fe 48 36 79 01 42 14 ff fe 30 f0 08 18
00000410 f1 81 45 9a 60 c1 79 f0 14 12 10 ce ea 31 5a ff
00000420 fc 20 13 82 2f c9 02 1f 81 cb 00 e1 10 d2 b4 be
00000430 87 ff b0 1e 27 81 b7 04 06 3c c2 04 f6 06 0e 28
00000440 bc 40 bf 12 1e 86 d4 6a 7f 18 1b 96 85 4c 16 80
00000450 df 2c a5 8d 86 a3 4a 8a b4 1b a1 38 a9 d5 ff ff
00000460 ea 06 20 d2 95 1e f4 2f b2 12 0e 61 78 4a 17 52
00000470 5d e4 25 1f fe c0 b3 1f ff ff ec 02 82 80 90 41
00000480 88 de 48 2c 42 52 0b 2f 43 7e 50 78 f2 67 78 41
00000490 34 3d c8 0f 67 a1 eb 21 fe c0 1f 22 60 41 6c 00
000004A0 92 4b 60 10 d0 0d 01 35 05 0e 87 a2 a0 5d 1f a3
000004B0 af 7f 1b be 8f cd a5 00 1c 10 40 15 76 81 05 ef
000004C0 ee 00 60 84 00 99 40 4a 82 17 e9 fc c4 7f ff fd
000004D0 04 80 06 06 dc af a7 7e 94 75 74 01 00 e0 91 00
000004E0 85 7f 8e d6 0b 20 21 30 ca 62 8e 07 04 e9 45 40
000004F0 5f 47 4a 30 15 41 cb df ff fc bf c3 b4 46 6a 01
00000500 4d d0 a7 34 18 24 1c 2a 45 fe a8 05 08 61 fd a8
00000510 80 71 01 25 9c c1 47 17 37 02 7a 15 ff f3 01 45
00000520 7f d6 80 60 83 67 f8 9d 2f f4 dd 8c 30 01 51 42
00000530 bc 43 7a 6b 9f 84 1e 00 48 c1 e0 b7 e0 7e 99 f2
00000540 4a e9 40 02 81 c3 00 24 3a c5 52 0f 91 c8 68 25
00000550 40 99 a4 25 1a 04 d0 a2 91 dd eb 93 00 21 49 24
00000560 8b 40 75 38 14 a1 fd 3f 88 25 bf 32 00 e3 19 fc
00000570 b9 f8 6f 81 c0 01 b3 93 20 09 08 25 84 e1 34 d4
00000580 1b 48 88 11 a0 15 59 d7 07 81 81 3b a1 40 2e 2f
00000590 48 70 09 c4 76 49 0f 2e 50 2e 46 19 a4 16 a2 1b
000005A0 84 a2 89 58 fc 4f 3f 40 90 4c a3 01 32 09 02 80
000005B0 9c 91 13 2c ba de 5d 99 f2 ff ff 3d 5a 1f a9 02
000005C0 90 8f f3 08 bd 01 f8 d0 2a 95 41 0c 40 0a 20 c4
000005D0 d4 cc 6b 0f f0 80 b1 5d 28 3d 08 c2 f8 31 02 49
000005E0 88 14 28 ed e8 86 3b 00 9f 95 06 37 15 a4 59 c8
000005F0 80 b6 10 f0 e5 b8 18 00 56 1c ff 95 21 0e 7f 2b
00000600 c5 08 59 10 e1 46 31 8d ec e0 a1 99 bb 21 ff fe
00000610 30 10 d0 05 e3 08 50 fc f3 0e 00 8d 68 8e 07 a6
00000620 80 34 42 ed 1f 88 00 f0 8a 21 ae f7 fb 80 28 86
00000630 0f ff ff 82 ea 47 95 91 e0 04 01 44 0c 29 ff 0e
00000640 33 e8 c0 54 04 23 fc 81 5b f0 3c 07 10 70 30 d8
00000650 21 6f ef de 46 09 43 fa 5f ff 0d 72 30 dd 00 db
00000660 e4 48 24 97 08 46 b1 49 c4 4d 80 12 60 ff a4 a6
00000670 ff f6 8c 00 40 05 02 b4 0f f0 3e fc 84 38 81 94
00000680 8b fe 49 ef c0 10 49 88 28 a2 1c 2a 8b 64 d4 86
00000690 d7 ff ff ff eb 91 6b 11 10 00 69 4c bf b4 1c d8
000006A0 00 07 16 80 60 0a 1c 82 42 27 82 43 c9 0a 64 20
000006B0 5a 5f 4e bf 8c 38 82 36 02 07 72 79 07 23 b4 bb
000006C0 57 5f e8 04 dd 39 e9 07 95 be 04 2b dd 8e 22 dc

000006D0 14 2c 61 a3 a9 cd 4f 82 5d a0 44 df f4 96 ff f5
000006E0 2b ff fe 01 19 d2 a2 9e 43 a5 7f f0 4c 4c 2b 3c
000006F0 33 e2 55 ff 04 06 29 2c 0d 22 5d 7c 93 ba 18 af
00000700 f9 32 a6 c3 99 46 79 e3 06 a6 38 8b 92 22 4b db
00000710 1b 36 20 b0 6c 20 ce 37 42 e1 66 d4 49 34 42 8b
00000720 fa 9c 12 99 dc 06 87 fa 46 f8 2f 04 a9 d8 82 07
00000730 a6 30 0f c0 df 35 e8 90 f0 ff ff a8 e0 d7 02 60
00000740 1a c3 20 28 a2 31 29 3c eb 04 a5 dd 48 0e 82 a4
00000750 b6 56 22 06 57 e0 da 10 27 31 0e 11 77 fe 02 60
00000760 16 48 81 8c 0d 05 17 7f cb bb 7e 25 2a 41 fd 8a
00000770 7f c9 36 7c e0 98 7e 92 ef 7e 06 03 13 3e 20 3a
00000780 bf 4c c3 0f 2e 80 74 bf 39 3c f0 a6 b2 e9 3f 41
00000790 55 1f 2c f5 d2 7e 8c ae 4e aa 61 3c bc 3f c4 c7
000007A0 36 dc 23 c8 b8 52 e2 8a 80 18 00 00 b2 46 a2 56
000007B0 0d 12 94 aa bd 01 07 ff fa 34 0c 5f f8 0c 12 50
000007C0 af d6 d1 89 40 a4 ff e0 ce c4 49 25 9d c1 ff 7e
000007D0 60 24 5d cc 10 c0 be 5a 12 d3 c3 fe 2d 40 7c 28
000007E0 9e 71 01 d2 6e 86 0b c8 f2 9b 45 08 4c 04 52 7e
000007F0 f2 7e d9 cc 0b 1c 20 80 ae af fe b0 6d 23 f2 41
00000800 e3 2e 20 11 4b 74 89 dd ff a8 38 a3 95 82 15 f0
00000810 d0 d5 f1 92 8e ee c0 26 81 e9 47 ff ee 0d 20 34
00000820 31 3a ef 40 b2 29 47 19 7f 04 27 f1 90 85 09 86
00000830 7d 42 e2 54 5d 5f e8 0e d0 2c aa 16 bf 04 a7 f8
00000840 a2 46 0b 08 7a 79 e9 28 62 7c 33 f4 0b 14 82 fa
00000850 61 eb c1 ff 4c a4 11 7f 03 68 44 c1 1f 81 3a 6c
00000860 77 95 02 2b 53 80 e5 10 1e 90 e8 fd 1f a6 40 0b
00000870 13 ff 4e 4d 7f 52 e8 af 9a c1 80 0f 0a 14 02 3c
00000880 c0 09 13 e7 dc c0 1a 28 a0 e4 83 8e 03 88 d5 af
00000890 1a bd 91 00 b7 4e ba df f8 db cc 02 43 c4 14 2a
000008A0 3f c8 0d 09 1c 44 f4 01 3c ca 28 56 80 a6 85 00
000008B0 ea 3e 8f eb 9f fc 6e 07 c4 e0 30 78 a0 1e 6f 54
000008C0 78 51 ff 56 4a 01 47 02 4c 21 3b fb 90 0a cc 1d
000008D0 d2 47 ff fc 70 18 22 c0 b9 2f e9 7f 91 d3 66 2f
000008E0 80 2c 24 a7 fa 84 51 ab 6b 72 00 ab 33 04 cf 43
000008F0 ff 17 51 84 0c 01 50 10 8f 90 34 41 44 84 8e 08
00000900 19 04 48 50 84 38 3d 02 52 f9 7c d2 d0 1f 13 42
00000910 a0 21 41 c4 02 02 3d 09 c8 fd 60 7d 35 4f 7f ff
00000920 f9 97 6a d8 00 c3 83 00 09 50 4b 90 8a c7 94 4d
00000930 47 c1 62 32 28 24 09 52 2e 2e 1c 96 44 a0 09 c8
00000940 ce 64 a9 1c 19 0e 52 3e 3e 19 93 a0 36 26 22 08
00000950 9a 00 dd 66 3a 93 d5 89 d1 40 06 d4 a8 22 73 7b
00000960 3d 3f e3 04 94 ff ff ff ff 0c 56 77 ac e0 c4 06
00000970 1f b8 a5 80 fd 68 1c 32 16 03 de 71 2a 3d 14 19
00000980 be c2 88 d9 24 92 5f c5 90 0a 85 c2 3f 87 03 a8
00000990 26 17 c4 06 86 12 87 76 0a 48 16 ed 96 93 ec 1b
000009A0 30 73 e8 1a 3f ff 4d ce 40 f3 0c 51 4b 84 9e 67
000009B0 2b 15 40 1a a0 fc 10 0f d8 81 35 87 ff 98 0f 40
000009C0 00 ba c0 71 e2 00 18 28 b3 82 cc 80 6a a0 43 ff
000009D0 2d d6 04 8a 68 ff ff ff fc 1a f3 1a 2a 06 c0 01
000009E0 40 0c 30 c1 d0 d7 4f cb 74 1f 07 d3 b4 0d 88 98
000009F0 ea da 9f ce 2b 3c 55 b3 40 14 ff ff ff ea db 9b
00000A00 92 d8 68 08 0b 41 09 26 40 8c f1 b0 9a 98 c0 80
00000A10 8b f0 3d e7 ec 19 68 21 03 29 7f e1 6d 4c 0f 01
00000A20 d1 51 01 1a 50 2a 59 27 80 c1 6e 33 f1 80 e1 49
00000A30 08 e9 17 ff ff ff 80 5a 10 10 36 5e ca f8 3a 00
00000A40 1e b0 06 84 01 f3 07 1b 4a c0 1e 21 43 8e a5 55
00000A50 77 c7 65 7c c2 df 5e 0c 42 20 d2 48 61 c8 1c 65
00000A60 f8 fe 4c 88 71 1f 82 50 81 a3 54 09 13 28 52 f5
00000A70 e0 82 c3 06 7f fa 2c cf f8 f4 7f ff fd 01 49 a4
00000A80 b8 de 62 84 fe ed 65 1f 3c 3c b2 50 76 30 5b 03
00000A90 c0 08 a6 64 90 c8 cd 14 6e 69 46 7a c6 1c 87 d7
00000AA0 48 7b 49 05 2d 5e 7f cb 67 f0 d9 0d 1e 9e 53 b7
00000AB0 64 a5 a5 10 39 06 11 3f b1 a9 a6 e8 4d 47 77 da
00000AC0 43 76 89 45 09 70 c2 38 0f 09 6f e7 2d 82 35 07
00000AD0 fe 64 18 2e b8 04 42 54 80 43 12 6c 9a 55 c9 0a
00000AE0 a0 79 47 52 65 2a ff 50 11 c9 4e fe 5b 30 a4 e8
00000AF0 30 63 ff 21 12 1b dc 1c 01 41 51 1f ff fa c3 e3
00000B00 55 f1 66 e2 d5 78 5e fa 4d f2 61 01 26 15 a9 f9
00000B10 d9 32 41 90 36 4e ae e3 0b 16 56 8c 6e 42 5d d8
00000B20 1e fe 1d 40 3a 50 9f 09 14 eb 6e 48 7a 91 88 7b

00000B30 7d 8f 72 42 39 b0 1c 65 18 23 8b 60 30 00

TS_RFX_TILESET message (section 4.2.4.1).

```
c7 cc -> TS_RFX_TILESET::CodecChannelT::blockType = WBT_EXTENSION
3e 0b 00 00 -> TS_RFX_TILESET::CodecChannelT::blockLen = 2878
01 -> TS_RFX_TILESET::codecId = 1
00 -> TS_RFX_TILESET::channelId = 0
c2 ca -> TS_RFX_TILESET::subtype = CBT_TILESET
00 00 -> TS_RFX_TILESET::idx = 0x00
51 50 -> TS_RFX_TILESET::properties
TS_RFX_TILESET::properties::lt = TRUE (1)
TS_RFX_TILESET::properties::flags = VIDEO_MODE (0)
TS_RFX_TILESET::properties::cct = COL_CONV_ICT (1)
TS_RFX_TILESET::properties::xft = CLW_XFORM_DWT_53_A (1)
TS_RFX_TILESET::properties::et = CLW_ENTROPY_RLGR3 (4)
TS_RFX_TILESET::properties::qt = SCALAR_QUANTIZATION (1)
01 -> TS_RFX_TILESET::numQuant = 1
40 -> TS_RFX_TILESET::tileSize = 64
01 00 -> TS_RFX_TILESET::numTiles = 1
23 0b 00 00 -> TS_RFX_TILESET::tilesDataSize = 2851
66 66 77 88 98 -> TS_RFX_TILESET::quantVals
TS_RFX_TILESET::quantVals::LL3 = 6
TS_RFX_TILESET::quantVals::LH3 = 6
TS_RFX_TILESET::quantVals::HL3 = 6
TS_RFX_TILESET::quantVals::HH3 = 6
TS_RFX_TILESET::quantVals::LH2 = 7
TS_RFX_TILESET::quantVals::HL2 = 7
TS_RFX_TILESET::quantVals::HH2 = 8
TS_RFX_TILESET::quantVals::LH1 = 8
TS_RFX_TILESET::quantVals::HL1 = 8
TS_RFX_TILESET::quantVals::HH1 = 9
```

TS_RFX_TILE message (section 2.2.2.3.4.1).

```
c3 ca -> TS_RFX_TILE::BlockT::blockType = CBT_TILE
23 0b -> TS_RFX_TILE::BlockT::blockLen = 2851
00 -> TS_RFX_TILE::quantIdxY = 0
00 -> TS_RFX_TILE::quantIdxCb = 0
00 -> TS_RFX_TILE::quantIdxCr = 0
00 00 -> TS_RFX_TILE::xIdx = 0
00 00 -> TS_RFX_TILE::yIdx = 0
ae 03 -> TS_RFX_TILE::YLen = 942
cf 03 -> TS_RFX_TILE::CbLen = 975
93 03 -> TS_RFX_TILE::CrLen = 915
0000002e:000003db -> TS_RFX_TILE::YData
000003dc:000007aa -> TS_RFX_TILE::CbData
000007ab:00000b3d -> TS_RFX_TILE::CrData
```

4.2.4.2 Entropy Decoded Data

The following are dumps of the Y, Cb, and Cr components of the tile after they are decoded using the RLGR3 (section 3.1.8.1.7.2) algorithm. The decoded data for each component has 4,096 (64x64) coefficients, and they contain the quantized DWT sub-bands (see the figure illustrating three-level DWT decomposition in section 3.1.8.1.4) at the following ranges.

```
00000000:000003FF -> HL1 (32x32 coefficients)
00000400:000007FF -> LH1 (32x32 coefficients)
00000800:00000BFF -> HH1 (32x32 coefficients)
00000C00:00000CFF -> HL2 (16x16 coefficients)
00000D00:00000DFF -> LH2 (16x16 coefficients)
```

```

00000E00:00000EFF -> HH2 (16x16 coefficients)
00000F00:00000F3F -> HL3 (8x8 coefficients)
00000F40:00000F7F -> LH3 (8x8 coefficients)
00000F80:00000FBF -> HH3 (8x8 coefficients)
00000FC0:00000FFF -> LL3 (8x8 coefficients)

```

4.2.4.2.1 Y Component Data

The following is a dump of the Y component data, as shown in the figure illustrating three-level DWT decomposition in section 3.1.8.1.4.

```

00000000 +0 +1 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0
00000010 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0
00000020 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0
00000030 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0
00000040 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0
00000050 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0
00000060 +1 +0 +2 +0 +0 +0 +0 +0 -1 +0 +0 +0 +0 +0 +0 +0
00000070 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0 +1 +0 +0 +0 +0
00000080 +0 +0 +1 +0 +0 +0 +2 +0 +0 +0 +0 +0 +0 +0 +0 +0
00000090 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0
000000A0 +0 +0 +0 +0 +0 +0 +0 +0 +0 +1 +0 +0 +0 +0 +0 +0
000000B0 +0 +0 -1 +0 +0 +0 +0 +0 +0 +0 +0 +0 -1 +1 +0 +0
000000C0 +0 +0 +0 +0 +0 +0 -3 +0 +0 +0 +1 +0 +0 +0 +0 +0
000000D0 +0 +2 +0 +0 +0 +0 +0 +0 +1 +0 +0 -2 +4 -5 -1 +0
000000E0 +0 +0 +0 +0 +0 +0 -1 -3 +0 +0 +0 +0 +0 +0 +0 +0
000000F0 +0 -3 +0 +3 +0 +0 +0 +0 +0 +0 -1 +4 +4 -5 -1 +0
00000100 +0 +0 +0 +0 +0 -2 +5 +0 +0 +0 +0 +0 +2 +1 +0
00000110 +2 -5 -4 +1 +0 +0 +0 +0 +0 +1 +3 -1 +5 +0 -1
00000120 +0 +0 +0 +0 +0 -2 -2 -3 +0 +0 +0 +0 +3 +0 +0
00000130 +7 +0 -4 +0 +0 +0 +0 +0 +0 +0 +0 -1 +0 -1 +2 -1
00000140 +0 +0 +0 +0 +0 -3 +1 +5 +0 +0 +0 +0 +0 +0 -1 +0
00000150 +0 +1 +7 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0 -1 +0 +0
00000160 +0 +0 +0 +0 +2 +0 +0 +0 -2 +0 +0 +0 +0 +0 +1 +0
00000170 -9 -3 +5 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0 -1 +0 +0
00000180 +0 +0 +0 +0 +0 +0 -1 -1 -1 +0 +0 +0 +0 +0 +0 +6
00000190 -2 -8 -1 +0 +0 +0 +0 +0 +0 +0 +0 +0 -1 +0 +0 +0
000001A0 +0 +0 +0 +0 -3 +0 +0 +0 +0 +0 +0 -1 +0 -1 +0 +5
000001B0 +2 +3 +0 +0 +0 +0 +0 +0 +0 +0 +1 +0 +2 +0 +0 +0
000001C0 +0 +0 +0 -1 +1 +0 +0 -1 +2 +0 +0 +1 +0 +0 -1 +0
000001D0 -1 +7 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0 -3 -2 +0 +0
000001E0 +0 +0 +0 +3 -1 +0 -1 +0 +1 +0 +0 +0 +1 +2 -1 +0
000001F0 -5 +1 +0 +0 +0 +0 +0 +0 +0 +0 +0 -3 -4 +0 +0 +0
00000200 +0 +0 -1 -6 +1 +0 -1 +0 +0 +0 +0 +0 +0 +0 +6 +0
00000210 -1 +0 +1 +0 +0 +1 -1 +0 +0 +0 +0 +0 +0 +0 +0 +0
00000220 +0 +0 +3 -5 +0 +0 +0 +0 +0 +0 +0 +0 +0 -1 -1 +1
00000230 +10 +0 +0 +0 -1 +1 +0 +0 +0 +0 -1 +1 +0 +0 +0 +0
00000240 +0 +0 +7 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0 +1 -5 -5
00000250 +3 +0 +0 +0 +0 +0 +0 +0 +0 -1 +0 -1 +0 +0 +0 +0
00000260 +0 -1 -2 +0 +0 +0 -1 +0 +0 +0 +0 +0 +0 +3 -1 -7
00000270 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0 +1 -6 +0 +0 +0 +0
00000280 +0 +0 -8 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0 +3 +2 +4
00000290 +0 +0 +0 +0 +0 -1 +0 +0 +0 +0 +6 -1 +0 +0 +0 +0
000002A0 -1 +7 -1 +0 +0 +0 -1 -1 +0 +0 +0 +0 -3 -1 +6 +0
000002B0 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0 +3 +1 +0 +0 +0 +0
000002C0 +0 +4 +1 +2 -2 -2 +0 -1 +0 +0 +0 +0 +1 -1 -7 +1
000002D0 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0 -6 +0 +0 +0 +0 +0
000002E0 -1 -10 +3 +1 +2 +0 -2 +1 +1 +0 +0 +0 +0 +0 -1 +0
000002F0 +0 +0 -1 +0 +0 +0 +0 +0 +0 +3 -2 +0 +0 +0 +0 +0
00000300 +6 -8 -2 +0 -2 +1 +0 +0 -1 -1 -1 +1 +1 +1 +6 +0
00000310 +0 +0 +0 +0 +0 +0 +0 +0 +0 +4 +1 +0 +0 +0 +0 +0
00000320 +3 +2 +0 +1 +0 +0 +1 +1 +0 +0 +1 -2 +5 -3 +2 +0
00000330 +0 +0 +0 +1 +0 +0 +0 +0 +0 -2 +0 +0 +0 +0 +0 +0
00000340 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0 -1 +0 +0 -3 +0 +1
00000350 +0 +0 +1 +1 +0 +0 +0 +0 +0 -4 +0 +0 +0 +0 +0 +0
00000360 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0 -1 +1
00000370 -1 -1 +0 +0 +1 +0 +0 +0 +3 +0 +0 +0 +0 +0 +0 +0

```

00000380	+0	+0	+0	+0	+0	+0	+0	+0	+0	+0	+0	+0	+0	+0	+0	-1	+0
00000390	+0	+0	+1	+1	+1	-2	+0	+1	+0	+0	+0	+0	+0	+0	+0	+0	+0
000003A0	+0	+0	+0	+0	+0	+0	+0	+0	+0	+0	+0	+0	+0	+0	+0	+0	+0
000003B0	-1	+0	-2	+1	+1	+0	+0	+0	+0	+0	+0	+0	+0	+0	+0	+0	+0
000003C0	+0	+0	+0	+0	+0	+0	+0	+0	+0	+0	+0	+0	+0	+0	+0	+0	+0
000003D0	+0	+0	+0	+3	-1	+0	+0	+0	+0	+0	+0	+0	+0	+0	+0	+0	+0
000003E0	+0	+0	+0	+0	+0	+0	+0	+0	+0	+0	+0	+0	+0	+0	+0	+0	+0
000003F0	+0	+0	+0	-1	+0	+0	+0	+0	+0	+0	+0	+0	+0	+0	+0	+0	+0
00000400	+0	+0	+0	+0	+0	+0	+0	+0	+0	+0	+0	+0	+0	+0	+0	+0	+0
00000410	+0	+0	+0	+0	+0	+0	+0	+0	+0	+0	+0	+0	+0	+0	+0	+0	+0
00000420	+0	+0	+0	+0	+0	+0	+0	+0	+0	+0	+0	+0	+0	+0	+0	+0	+0
00000430	+0	+0	+0	+0	+0	+0	+0	+0	+0	+0	+0	+0	+0	+0	+0	+0	+0
00000440	+0	+0	+0	+0	+0	+0	+0	+0	+1	+0	-1	-1	+0	+0	-1	-1	-1
00000450	+1	+0	+0	+0	+0	+0	+0	+0	+0	+0	+0	+0	+0	+0	+0	+0	+0
00000460	-1	-1	-1	+0	+0	+0	+0	-1	+0	+0	+0	+0	+0	+0	+0	+0	+0
00000470	+0	-1	+0	+0	+0	+0	+0	+0	+0	+0	+0	+0	+0	+0	+0	+0	+0
00000480	-1	-1	-1	+0	+0	+0	+0	+0	+0	+0	+0	+0	+0	+0	+0	+0	+0
00000490	+0	+0	+0	+0	+0	+0	+0	+0	+0	+0	+0	+0	+0	+0	+0	+0	+0
000004A0	+0	+0	+0	+0	+0	+0	+0	+0	+0	+0	+0	+0	+0	+0	+0	+0	+0
000004B0	+0	+0	+0	+0	-1	+1	+0	+0	+0	+0	+0	+0	-2	-8	+2	+0	+0
000004C0	+0	+0	+0	+0	+0	+0	-1	+0	+0	+0	+0	+0	+0	+0	+0	+0	+0
000004D0	+0	+0	+0	+0	+0	+0	-1	+0	+0	+1	+0	-2	+4	+4	-1	+0	+0
000004E0	+0	+0	+0	+0	+0	-1	+3	-1	+0	+0	+0	+0	+0	+0	+1	+0	+0
000004F0	+0	+1	+0	+0	+0	+0	+0	+0	+0	-1	+3	+3	-7	-1	+0	+0	+0
00000500	+0	+0	+0	+0	+0	+0	+0	+1	+0	+0	+0	+0	+0	+0	+0	+0	+0
00000510	+0	+0	-1	+1	+0	+0	+0	+0	+0	+0	+0	+1	+0	+0	+6	+3	+3
00000520	+0	+0	+0	+0	+0	+0	+0	+0	+0	+0	+0	+1	+0	+0	+0	+0	+0
00000530	+1	+0	+0	+0	+0	+0	+0	+0	+0	+0	+0	+0	+0	+0	-8	+0	+0
00000540	+0	+0	+0	+0	+0	+0	+0	+0	+0	+0	+1	-2	-2	+2	+2	-1	-1
00000550	+0	+0	-1	+0	+0	+0	+0	+0	+0	+0	+0	+0	+0	+0	+0	+0	+0
00000560	+0	+0	+0	+0	+0	-1	+0	+0	+1	+1	+3	+1	+0	+0	+0	+0	+0
00000570	+0	+0	+0	+0	+0	+0	+0	+1	+0	+0	+0	+0	+0	+0	+0	+0	+0
00000580	+0	+0	+0	+0	+0	-1	+0	-1	-5	-3	-4	-6	-6	+7	+1	+1	+1
00000590	-1	+0	+0	+0	+0	+0	+0	+0	-1	-2	-3	+0	+1	+0	+0	+0	+0
000005A0	+0	+0	+0	+0	+0	+1	+0	+2	-1	+0	-2	-3	+1	+1	-8	+6	+6
000005B0	+0	-1	+1	+0	+0	+0	+0	+1	+1	+0	+0	+6	-3	-1	+0	+0	+0
000005C0	+0	+0	+0	-1	+5	+2	-6	-2	+0	+0	+0	+2	+7	-6	-1	+0	+0
000005D0	+0	+1	+0	+0	+0	+0	+0	+0	+0	+0	-1	-1	+1	+6	+0	+0	+0
000005E0	+0	+0	+0	+0	-2	+1	+0	+0	+0	+0	+0	+0	+0	-1	+6	-1	-1
000005F0	+1	-6	+7	+0	+0	+0	+0	+0	+0	+0	+0	+1	-1	-1	+0	+0	+0
00000600	+0	+0	+0	+1	+0	+0	+0	+0	+0	+0	+0	+0	+0	+0	+0	+0	+0
00000610	-1	-2	+0	-8	+6	+6	+4	+3	+3	+4	-1	-2	+0	+0	+0	+0	+0
00000620	+0	+0	+0	+0	+0	+0	+0	+0	+0	+0	+0	+0	+0	+0	+0	+2	-1
00000630	-1	+7	-8	+0	+1	-2	-4	-3	-1	+1	-3	-4	+1	+0	+0	+0	+0
00000640	+0	+0	+0	+0	+0	+0	+0	+0	+0	+0	+1	+0	+1	-3	-5	+0	+0
00000650	+1	+0	+0	+8	-1	-7	-9	-7	-2	+6	+3	+0	+0	+0	+0	+0	+0
00000660	+0	+0	+1	+0	+0	+0	-1	-1	+0	+0	+0	+0	+0	+1	-1	+0	+0
00000670	+0	+0	+0	+0	+0	+0	+0	+0	+0	+0	+0	+0	+0	+0	+0	+0	+0
00000680	+0	+0	+0	+0	+0	+0	+1	+0	+0	+0	+0	+0	+0	+0	+0	+0	-1
00000690	+1	+0	+0	+0	+0	+0	+0	-1	+1	+0	+0	+1	-1	+0	+0	+0	+0
000006A0	-1	+1	-1	+1	+1	+0	+0	+0	+0	+0	+0	+0	+0	+0	+0	+0	+0
000006B0	+0	+0	+0	+0	+0	+0	+0	+0	-1	+1	-1	+0	+0	+0	+0	+0	+0
000006C0	+0	+1	+1	+3	+3	+0	+1	+1	-1	+1	+0	+0	+0	+0	+0	+0	+0
000006D0	+0	+0	+0	+0	+0	+0	+0	+0	+0	+0	+1	+0	+0	+0	+1	+0	+0
000006E0	+0	+0	+2	+1	-4	-5	-8	-6	-4	+1	+0	+0	-1	+0	+0	+0	+0
000006F0	+0	+0	+0	+0	+0	+0	+0	+0	+0	+0	+0	+1	+0	+0	+0	+0	+0
00000700	+3	-9	-5	+10	+2	+2	+0	-1	+2	+6	-4	-1	+0	+0	+0	+0	+0
00000710	+0	+0	+0	+0	+0	+0	+0	+0	+0	+0	+0	+0	+0	+0	+0	+0	+0
00000720	-1	+2	-1	-1	+1	+0	+0	+0	+0	+0	-1	+4	-2	-1	+1	-1	-1
00000730	+1	-1	+0	+0	+0	+0	+0	+0	+0	+1	+0	+0	+0	+0	+0	+0	+0
00000740	+0	+0	+0	+0	+0	+0	+0	+0	+0	+0	+0	+0	+0	+0	+0	+0	+1
00000750	-1	+1	+0	+0	+0	+0	+0	+0	+0	+0	+0	+0	+0	+0	+0	+0	+0
00000760	+0	+1	+0	+0	+0	+0	+0	+0	+0	+0	+0	+0	+0	+0	+0	-1	-1
00000770	+0	-1	+1	+1	+0	+1	+0	-1	+3	-1	+0	+0	+0	+0	+0	+0	+0
00000780	+0	+0	+0	+0	+0	+0	+0	+0	+0	+0	+0	+0	+0	+0	+0	+0	-1
00000790	-1	-1	+1	+1	+1	+0	-2	-3	+0	+0	+0	+0	+0	+0	+0	+0	+0
000007A0	+0	+0	+0	+0	+0	+0	+0	+0	+0	+0	+0	+0	+0	+0	+0	+0	+0
000007B0	+0	+0	-1	+4	+2	+1	+0	+0	+0	+0	+0	+0	+0	+0	+0	+0	+0
000007C0	+0	+0	+0	+0	+0	+0	+0	+0	+0	+0	+0	+0	+0	+0	+0	+0	+0
000007D0	+0	+0	+0	+0	-2	+0	+0	+0	+0	+0	+0	+0	+0	+0	+0	+0	+0

000007E0	+0	+0	+0	+0	+0	+0	+0	+0	+0	+0	+0	+0	+0	+0	+0	+0
000007F0	+0	+0	+0	+0	+0	+0	+0	+0	+0	+0	+0	+0	+0	+0	+0	+0
00000800	+0	+0	+0	+0	+0	+0	+0	+0	+0	+0	+0	+0	+0	+0	+0	+0
00000810	+0	+0	+0	+0	+0	+0	+0	+0	+0	+0	+0	+0	+0	+0	+0	+0
00000820	+0	+0	+0	+0	+0	+0	+0	+0	+0	+0	+0	+0	+0	+0	+0	+0
00000830	+0	+0	+0	+0	+0	+0	+0	+0	+0	+0	+0	+0	+0	+0	+0	+0
00000840	+0	+0	+0	+0	+0	+0	+0	+0	+0	+0	+0	+0	+0	+0	+0	+0
00000850	+0	+0	+0	+0	+0	+0	+0	+0	+0	+0	+0	+0	+0	+0	+0	+0
00000860	+0	+0	+0	+0	+0	+0	+0	+0	+0	+0	+0	+0	+0	+0	+0	+0
00000870	+0	+0	+0	+0	+0	+0	+0	+0	+0	+0	+0	+0	+0	+0	+0	+0
00000880	+0	+0	+0	+0	+0	+0	+0	+0	+0	+0	+0	+0	+0	+0	+0	+0
00000890	+0	+0	+0	+0	+0	+0	+0	+0	+0	+0	+0	+0	+0	+0	+0	+0
000008A0	+0	+0	+0	+0	+0	+0	+0	+0	+0	+0	+0	+0	+0	+0	+0	+0
000008B0	+0	+0	+0	+0	+0	+0	+0	+0	+0	+0	+0	+0	-1	+1	+0	+0
000008C0	+0	+0	+0	+0	+0	+0	+0	+0	+0	+0	+0	+0	+0	+0	+0	+0
000008D0	+0	+0	+0	+0	+0	+0	+0	+0	+0	+0	+0	-2	-1	+1	+0	+0
000008E0	+0	+0	+0	+0	+0	-1	-1	+0	+0	+0	+0	+0	+0	+0	+0	+0
000008F0	+0	-1	+0	+0	+0	+0	+0	+0	+0	+0	-1	+1	-2	+0	+0	+0
00000900	+0	+0	+0	+0	+0	+0	+0	+0	+0	+0	+0	+0	+0	+0	+0	+0
00000910	+0	+0	-1	+0	+0	+0	+0	+0	+0	+0	+0	-1	+0	+0	+1	-1
00000920	+0	+0	+0	+0	+0	-1	+0	+0	+0	+0	+0	+0	+0	+0	+0	+0
00000930	+0	+0	+0	+0	+0	+0	+0	+0	+0	+0	+0	+0	+0	+0	+0	+0
00000940	+0	+0	+0	+0	+0	+0	+0	+0	+0	+0	+0	+0	+0	+0	+0	+0
00000950	+0	+0	+0	+0	+0	+0	+0	+0	+0	+0	+0	+0	+0	+0	+0	+0
00000960	+0	+0	+0	+0	+0	+0	+0	+0	+0	+0	+0	+0	+0	+0	+0	+0
00000970	+0	+0	+0	+0	+0	+0	+0	+0	+0	+0	+0	+0	+0	+0	+0	+0
00000980	+0	+0	+0	+0	+0	+0	+0	+0	+0	+0	+0	-1	+0	+0	+0	+1
00000990	+0	+0	+0	+0	+0	+0	+0	+0	+0	+0	+0	+0	+0	+0	+0	+0
000009A0	+0	+0	+0	+0	+1	+0	+0	+0	+0	+0	+0	+0	+0	+0	+0	-1
000009B0	+0	+1	+0	+0	+0	+0	+0	+0	+0	+0	+0	+0	+1	+0	+0	+0
000009C0	+0	+0	+0	+0	+1	+0	+0	+0	+0	+0	+0	+0	+0	-1	+0	+0
000009D0	+0	+0	+0	+0	+0	+0	+0	+0	+0	+0	+0	+1	+1	+0	+0	+0
000009E0	+0	+0	+0	+0	+0	+0	+0	+0	+0	+0	+0	+0	+0	+0	-1	+0
000009F0	+1	+0	+0	+0	+0	+0	+0	+0	+0	+0	+0	+1	+0	+0	+0	+0
00000A00	+0	+0	+0	-1	+0	+0	+0	+0	+0	+0	+0	+0	+0	+0	+0	+0
00000A10	-2	+0	+0	+0	+0	+0	+0	+0	+0	+0	+0	+0	+0	+0	+0	+0
00000A20	+0	+0	+0	+0	+0	+0	+0	+0	+0	+0	+0	+0	+0	+0	-1	+0
00000A30	-1	+0	+0	+0	+0	+0	+0	+0	+0	+0	+0	+1	+0	+0	+0	+0
00000A40	+0	+0	+0	+0	+0	+0	+0	+0	+0	+0	+0	+0	+0	-1	+1	+0
00000A50	+0	+0	+0	+0	+0	+0	+0	+0	+0	+0	+0	-1	+0	+0	+0	+0
00000A60	+0	+0	+0	+0	+0	+0	+0	+0	+0	+0	+0	+0	+0	+1	+0	+0
00000A70	+0	+0	+0	+0	+0	+0	+0	+0	+0	+0	+0	+0	+0	+0	+0	+0
00000A80	+0	+0	+0	+0	+0	+0	+0	+0	+0	+0	+0	+0	+0	+0	+0	+1
00000A90	+0	+0	+0	+0	+0	+0	+0	+0	+0	+0	+1	+0	+0	+0	+0	+0
00000AA0	+0	+1	+0	+0	+0	+1	+0	+0	+0	+0	+0	+0	+0	+0	+0	+0
00000AB0	+0	+0	+0	+0	+0	+0	+0	+0	+0	+0	+0	+0	+0	+0	+0	+0
00000AC0	+0	+0	-1	+0	+0	+1	+1	+0	+0	+0	+0	+0	+0	+0	+0	+0
00000AD0	+0	+0	+0	+0	+0	+0	+0	+0	+0	+0	+0	+0	+0	+0	+0	+0
00000AE0	+0	-1	-1	+2	+0	-1	+0	+0	+0	+0	+0	+0	+0	+0	+0	+0
00000AF0	+0	+0	+0	+0	+0	+0	+0	+0	+0	+0	+0	+0	+0	+0	+0	+0
00000B00	+1	-1	+0	+0	+0	+0	+0	+0	+0	+1	-1	+0	+0	+0	+0	+0
00000B10	+0	+0	+0	+0	+0	+0	+0	+0	+0	+0	+0	+0	+0	+0	+0	+0
00000B20	+0	+0	+0	+0	+0	+0	+0	+0	+0	+0	+0	+0	+0	+0	+1	+0
00000B30	+0	+0	+0	+0	+0	+0	+0	+0	+0	+0	+0	+0	+0	+0	+0	+0
00000B40	+0	+0	+0	+0	+0	+0	+0	+0	+0	+0	+0	+0	+0	+0	+0	+0
00000B50	+0	+0	+0	+0	+0	+0	+0	+0	+0	+0	+0	+0	+0	+0	+0	+0
00000B60	+0	+0	+0	+0	+0	+0	+0	+0	+0	+0	+0	+0	+0	+0	+0	+0
00000B70	-1	+0	+0	+0	+0	+0	+0	+0	+0	+0	+0	+0	+0	+0	+0	+0
00000B80	+0	+0	+0	+0	+0	+0	+0	+0	+0	+0	+0	+0	+0	+0	+0	+0
00000B90	-1	+0	+0	+0	+0	+0	+0	+0	+0	+0	+0	+0	+0	+0	+0	+0
00000BA0	+0	+0	+0	+0	+0	+0	+0	+0	+0	+0	+0	+0	+0	+0	+0	+0
00000BB0	+0	+0	-1	-1	+1	+0	+0	+0	+0	+0	+0	+0	+0	+0	+0	+0
00000BC0	+0	+0	+0	+0	+0	+0	+0	+0	+0	+0	+0	+0	+0	+0	+0	+0
00000BD0	+0	+0	+0	-1	+0	+0	+0	+0	+0	+0	+0	+0	+0	+0	+0	+0
00000BE0	+0	+0	+0	+0	+0	+0	+0	+0	+0	+0	+0	+0	+0	+0	+0	+0
00000BF0	+0	+0	+0	+0	+0	+0	+0	+0	+0	+0	+0	+0	+0	+0	+0	+0
00000C00	+1	+0	+0	+0	+0	+0	+0	+0	+0	+0	+0	+0	+0	+0	+0	+0
00000C10	+1	+0	+0	+1	+0	+0	+1	+0	+0	+0	+0	+0	+0	-1	+0	+0
00000C20	-1	-1	+0	-5	+3	-2	+1	+0	-1	+0	+0	+0	+0	+1	-4	-1
00000C30	+0	+0	+1	-5	-2	+1	+1	+1	+6	-2	-1	+0	+1	-4	+21	+6

00000C40	+0	+0	-5	-1	+1	+2	+4	+4	+3	+5	+0	+0	-1	+4	-8	-11
00000C50	+0	+0	-2	+8	-1	+0	+3	+1	-18	+16	+1	-1	+2	+0	-4	-4
00000C60	+0	+0	-6	+1	-3	-1	+1	+14	-23	+1	+0	+1	+0	+1	-3	-1
00000C70	+0	+0	+0	-5	-2	+3	-1	+11	-8	-3	+0	+1	+0	-1	-3	+1
00000C80	+0	+14	+1	+0	-1	+0	+0	-15	-2	+7	+1	-1	+1	-3	-1	-1
00000C90	-2	-14	+0	+1	+0	+0	+5	-18	+14	-7	-1	-1	-2	+13	+1	-1
00000CA0	+3	-14	+1	-2	+2	-1	+11	-16	-2	+2	-1	+1	+0	-9	+0	-1
00000CB0	+19	+1	+1	+1	+0	+2	+2	+8	+0	+0	+0	+0	+1	-13	+0	+0
00000CC0	-6	-3	-1	+0	-2	-2	+6	+13	+0	+0	+0	+1	+9	+1	+0	+0
00000CD0	-1	+2	+0	+0	+1	+0	-5	+0	+0	-1	+0	+0	+1	+1	+0	+0
00000CE0	+0	+0	+0	+0	+0	+0	+1	-2	-4	+1	+4	+4	-2	+0	+0	-1
00000CF0	+0	+0	+0	+0	+0	+0	+0	+0	+1	+0	-4	-1	+0	+0	+0	+0
00000D00	+0	+0	+0	+0	+0	+0	+0	+0	+0	+0	+0	+0	+0	+0	+0	+0
00000D10	-2	-1	+1	+1	-1	-3	+0	-2	-3	+0	+0	+0	+0	+0	+0	+0
00000D20	-2	-2	+0	+1	-1	+2	+0	+0	+0	+1	-1	+1	+0	+1	-8	-1
00000D30	+0	+0	+1	-3	+0	+0	-1	+3	+0	+0	+1	-3	-3	-3	+3	-4
00000D40	+0	+0	+0	+1	+0	+0	+3	-3	+3	-1	+1	+1	+0	+1	-5	+20
00000D50	+0	+0	+0	-1	+2	+7	-1	+0	+3	-2	+1	+0	+4	-1	+0	+1
00000D60	+0	+1	-3	+2	-9	-12	-19	+10	-1	+2	+0	-1	+1	+9	-13	+0
00000D70	+0	+1	-4	-13	+0	+0	+16	-7	+0	+16	-3	+1	-2	-1	+2	-1
00000D80	+0	+0	+0	+1	+1	+0	+0	+4	-3	-17	-14	+2	-4	-14	-1	+0
00000D90	-1	+1	+0	-1	+0	+1	+1	-2	+1	+3	+17	+13	+15	+9	-2	+0
00000DA0	+2	-3	+2	+2	-2	+2	+1	-1	+1	+0	+0	-2	+5	+7	-1	+0
00000DB0	+1	+4	-7	-14	-7	+2	-2	+0	+0	+0	+0	+0	+0	-1	+1	+0
00000DC0	-3	+17	+8	-1	+4	+8	-9	+0	+1	+0	+0	+0	+0	+0	+0	+0
00000DD0	-1	+1	+0	+0	+0	+0	+0	-2	-2	+2	+0	+0	+5	-1	+0	+0
00000DE0	-1	+0	+0	+0	+0	+0	+0	+0	-5	-4	-2	-6	-1	+0	+0	+0
00000DF0	+0	+0	+0	+0	+0	+0	+0	+0	+0	+0	-7	+1	+0	+0	+0	+0
00000E00	+0	+0	+0	+0	+0	+0	+0	+0	+0	+0	+0	+0	+0	+0	+0	+0
00000E10	+0	+0	+0	+1	+0	+0	+0	+0	+0	+0	+0	+0	+0	+0	+0	+0
00000E20	+0	+0	+0	+0	+0	+0	+0	+0	+0	+0	+0	+0	-1	+0	-4	-1
00000E30	+0	+0	+0	+0	+0	+0	-1	-1	+1	-1	+0	+0	+0	+0	+2	+2
00000E40	+0	+0	+0	+3	+0	+0	+1	+1	-1	+1	+0	+0	+0	+0	-4	-8
00000E50	+0	+0	+0	-1	+0	+0	-1	-1	-1	+0	+0	+0	+0	+0	+0	+0
00000E60	+0	+0	+0	+1	+1	-1	-3	+3	+0	+0	+0	-1	+1	+0	+0	+0
00000E70	+0	+1	-2	+0	+0	-1	+3	+1	+2	-1	+0	+0	+0	-2	-1	+0
00000E80	+0	+0	+0	+0	+0	+0	+0	+0	+1	+0	+1	+1	+0	-3	+0	+0
00000E90	+0	+0	+0	+0	+0	+0	+0	+1	+0	-1	+2	+0	-1	+1	+0	+0
00000EA0	+1	+1	+0	+0	+0	+0	+0	-1	+0	+0	+0	-1	+0	-2	+0	+0
00000EB0	+2	+2	+1	-1	+0	-1	+0	+0	+0	+0	+0	+0	+0	+0	+0	+0
00000EC0	-2	+2	+0	+0	+1	-2	+1	-1	-1	+0	+0	+0	+0	+0	+0	+0
00000ED0	+0	+0	+0	+0	+0	+0	+1	+0	+0	+0	+0	-1	-2	+0	+0	+0
00000EE0	+0	+0	+0	+0	+0	+0	+0	+0	+1	+1	-1	-1	+0	+0	+0	+0
00000EF0	+0	+0	+0	+0	+0	+0	+0	+0	+0	+0	+1	+0	+0	+0	+0	+0
00000F00	+0	+0	-2	-2	+1	+0	-1	-2	+0	-1	+8	+6	+3	+0	-1	-6
00000F10	+0	+4	+5	-13	-53	-3	-2	+0	-2	-15	-7	+25	+8	+3	+7	-25
00000F20	+26	-12	+5	+20	+6	+7	-5	-13	+2	-2	+5	-54	+10	-2	+30	+3
00000F30	-46	+11	-9	-1	-2	+1	-18	-2	+8	-3	+3	-5	-4	-1	-5	-2
00000F40	-3	+0	+1	-10	-3	+1	-1	+1	-5	-1	-3	+3	+7	-14	-13	+10
00000F50	+0	-1	+11	+2	+5	+2	+12	+0	-8	+24	-21	-49	-4	+10	+9	+31
00000F60	-1	+5	+10	+1	+13	-57	-52	+9	+12	-6	-18	+5	+1	-3	-4	-1
00000F70	+13	+21	+8	+11	+3	+7	+7	-2	-3	-1	+0	+2	-14	-19	-7	+1
00000F80	-1	-1	-3	-2	+0	+0	-1	-1	-1	-7	+3	+4	+7	-1	-6	-14
00000F90	-1	-7	+3	-12	-16	-2	+2	-1	-9	+1	+7	-21	+25	-4	-2	-23
00000FA0	+2	+2	+3	-4	+22	-4	+5	-4	-2	-2	+4	-7	+0	+0	+3	+2
00000FB0	+17	-6	+7	+5	+3	+1	-5	+0	+1	+0	+0	+6	+1	-4	+2	+0
00000FC0	-1	+1	-1	-14	+3	+0	-7	-4	+50	-13	-11	+34	-26	-23	-3	-1
00000FD0	+45	-4	+21	+57	-17	-43	-17	-15	+27	-7	+25	+30	-23	+65	-13	-88
00000FE0	+45	-103	+85	+71	-116	+88	-30	-57	+57	-101	+94	+25	+17	+5	+6	-107
00000FF0	+15	-31	+20	-26	+142	-18	-23	-95	+69	-7	-13	-9	+5	+18	-38	-18

4.2.4.2.2 Cb Component Data

The following is a dump of the Cb component data, as shown in the figure illustrating three-level DWT decomposition in section 3.1.8.1.4.

```
00000000 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0
```

```

00000010 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0
00000020 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0
00000030 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0
00000040 +0 +0 +0 +0 +0 +0 +0 +1 +0 +0 +0 +0 +0 +0
00000050 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0
00000060 +0 +0 -1 +0 +0 +0 +0 -1 +0 +0 +0 +0 +0 +0
00000070 -1 +1 -1 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0
00000080 +0 +0 +0 +0 +0 +9 -1 +0 +0 +0 +0 +0 +0 +0
00000090 +0 -1 +7 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0
000000A0 +0 +0 +0 +0 +0 +1 +1 +0 +0 +0 +0 +0 +0 +0
000000B0 +0 -6 +3 +2 +2 +0 +0 +0 +0 +0 +0 +1 -1 +1 +0
000000C0 +0 +0 +0 +0 +0 +0 -8 +0 +0 +0 +0 +0 +0 +0
000000D0 +0 -6 -2 -1 -1 +1 +0 +1 +0 +0 +3 -7 +7 -8 +1
000000E0 +0 +0 +0 +0 +0 +5 -4 +0 +0 +0 +0 +0 +0 +0
000000F0 +1 +6 +0 -10 +0 +0 +0 -1 +0 +1 +0 +0 +0 -2 -5 -2
00000100 +0 +0 +0 +0 +0 +5 +4 +0 +0 +0 +0 +0 +1 +1 +0
00000110 -2 +6 +9 -2 +0 +0 +0 +0 +0 +0 +1 +0 +2 +6 +0
00000120 +0 +0 +0 +0 -1 -6 -2 -2 +0 +0 +0 +0 +1 +0 +0
00000130 -7 +0 +5 +1 +0 +0 +0 +0 +0 +0 +0 +0 -1 +0 +0
00000140 +0 +0 +0 +0 +2 -6 +0 +4 +0 +0 +0 +0 +1 -1 +1
00000150 +0 -1 -7 +0 +0 +0 +0 +0 +0 +0 +0 +0 -9 +0 +0
00000160 +0 +0 +0 +0 +8 +0 +0 +0 -2 +0 +0 +0 +1 +1 +0
00000170 +6 +3 -4 +0 +0 +0 +0 +0 +0 +0 +0 +1 +2 +0 +0
00000180 +0 +0 +0 +0 +0 +0 -1 -2 -1 +0 +0 +0 +0 +0 -4
00000190 +1 +6 +0 +0 +0 +0 +0 +0 +0 +0 -1 +9 +0 +0
000001A0 +0 +0 +0 +0 -8 +1 +0 +1 +0 +0 +0 +0 +1 +0 -3
000001B0 -1 -2 +0 +0 +0 +0 +0 +0 +0 +0 +0 -8 +1 +0 +0
000001C0 +0 +0 +0 +0 +1 +0 +0 -1 +0 +0 +0 +0 +1 +0
000001D0 +0 -4 +0 +0 +0 +1 +0 +0 +0 +0 -5 +0 +0 +0
000001E0 +0 +0 +0 -1 +0 +0 +0 +0 +0 +0 +0 -1 +1 +0
000001F0 +3 -1 +0 +0 +0 +0 +0 +0 +0 +0 -1 +8 +0 +0 +0
00000200 +0 +0 +0 +1 +0 +0 +0 +0 +0 +0 +0 +0 -3 +0
00000210 +0 +0 +0 -1 +1 +0 +0 -1 +0 -1 +0 +1 +0 +0 +0
00000220 +0 +0 -1 +1 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0
00000230 -5 +0 +0 +0 +0 +0 -1 +0 +0 +1 -2 +0 +0 +0 +0
00000240 +0 +0 -2 +0 +0 +0 +0 +0 +0 +0 +0 -1 +3 +2
00000250 -1 +0 +0 +0 +0 +0 +0 +0 +2 +0 +2 +0 +0 +0 +0
00000260 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0 -2 +1 +4
00000270 +0 +0 +0 +0 +0 +2 +0 +0 -1 -1 +10 +0 +0 +0 +0
00000280 +0 +0 +2 +0 +0 +0 +0 +0 +0 +0 +0 -1 -1 -2
00000290 +0 +0 +0 +0 -2 +2 +0 +0 +0 -10 +1 +0 +0 +0 +0
000002A0 +0 -1 +0 +0 +0 +0 +0 +0 +0 +0 +0 +2 +1 -4
000002B0 +0 +0 +0 +0 +0 +0 -1 +1 +0 +0 -3 -1 +0 +0 +0
000002C0 +0 -1 +0 -1 +1 +1 +0 +0 +0 +0 +0 -1 +1 +6 +0
000002D0 +0 +0 +0 +0 +0 +0 -1 +0 +1 +12 +0 +0 +0 +0 +0
000002E0 +0 +1 -1 +0 -1 +0 +1 +0 -1 +0 +0 +0 +0 +2 +0
000002F0 +0 +0 +0 +0 +0 +0 +0 +0 -7 +5 +0 +0 +0 +0 +0
00000300 -1 +1 +1 +0 +1 +0 +0 +0 +0 +0 +0 +0 -1 -8 +0
00000310 +0 +0 +0 +0 +0 +0 +0 +0 -11 -1 +0 +0 +0 +0 +0
00000320 +0 +0 +0 +0 +0 +0 -1 +0 +0 +0 +0 -1 +5 -4 +0
00000330 +0 +0 +0 +0 +0 +0 +0 +1 +6 +0 +0 +0 +0 +0 +0
00000340 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0 +7 +1 +0
00000350 +0 +0 +0 +0 +0 +0 +0 -2 +10 +0 +0 +0 +0 +0 +0
00000360 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0 +4 -1 +0
00000370 +0 +0 +0 +0 +0 +0 +0 -10 +1 +0 +0 +0 +0 +0 +0
00000380 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0 -1 +3 +0
00000390 +1 +0 +0 +0 +0 +1 -2 +0 +1 +0 +0 +0 +0 +0 +0
000003A0 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0
000003B0 +1 +0 +1 +0 -1 +0 +1 +0 +0 +0 +0 +0 +0 +0 +0
000003C0 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0
000003D0 +0 +0 +0 -2 +1 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0
000003E0 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0
000003F0 +0 +0 +0 +1 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0
00000400 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0
00000410 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0
00000420 +0 +0 +0 +0 +0 +0 +0 +0 +0 -1 +2 +4 +5 +2 -1
00000430 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0
00000440 +0 +0 +0 +0 +0 +0 -1 +7 +4 -8 -7 -4 -4 -6 -7
00000450 +7 +1 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0
00000460 +1 +1 +1 +0 +0 +0 +0 -3 -3 +1 +0 +0 +0 +0 +0

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00000470 +1 -8 +6 -1 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0
00000480 +1 +1 +1 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0
00000490 +0 +0 -1 +0 +1 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0
000004A0 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0
000004B0 +0 -1 +1 +1 -6 +8 -1 +0 +0 +0 +0 +0 +2 +8 +2 +2
000004C0 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0
000004D0 +0 +0 +0 +1 +0 +0 -8 +7 +7 +4 +5 +8 +1 -1 -7 +0
000004E0 +0 +0 +0 +0 +0 +0 +1 +0 +0 +0 +0 +0 +0 +1 +0
000004F0 +0 -1 +1 +0 +0 +0 +0 +1 -2 -4 -4 -1 +1 -1 +0 +0
00000500 +0 +0 +0 +0 +0 +0 -1 +1 +0 +0 +0 +0 +0 +0 +0
00000510 +0 +0 +1 -2 +0 +0 +0 +0 +0 +0 +0 +0 +0 +2 -2
00000520 +0 +0 +0 +0 +0 +1 +0 +0 +0 +0 +0 +1 +0 +0 +0
00000530 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0 +1 +0
00000540 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0 -2 -1 +2 -1
00000550 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0
00000560 +0 +0 +0 +0 +0 +0 +0 +0 +0 -3 -3 -1 +1 +0 +1 +0
00000570 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0 -1 +1 +0
00000580 +0 +0 +0 +0 +1 -4 -6 +4 +7 +5 +4 +6 +5 -5 +0 +0
00000590 +1 +0 +0 +0 +0 +0 +0 -1 -4 -3 +0 +0 +0 +0 +0 +0
000005A0 +0 +0 +0 +0 +1 +5 -1 +0 +1 +1 +1 +2 +0 -1 +5 -4
000005B0 +0 +0 +0 +0 +0 +0 +1 +2 +0 +1 +5 -3 +2 +0 +0
000005C0 +0 +0 +0 +0 -1 +0 +1 +0 +0 +0 -1 -3 +3 +0 +0
000005D0 +0 +0 +0 +0 +0 +0 +1 +0 -1 +0 -1 -1 +1 -2 +0 +0
000005E0 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0 -3 +1
000005F0 -1 +3 -4 +0 +0 +0 +0 +0 +0 +1 -2 -7 +2 +0 +0
00000600 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0
00000610 +1 +1 +0 +5 -5 -4 -3 -3 -7 -9 +3 +8 -1 +0 +0 +0
00000620 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0 -1 +0
00000630 +1 -4 +4 +0 -1 +1 +3 +4 +2 -2 +4 +8 -2 +0 +0 +0
00000640 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0 +2 +0
00000650 -1 +0 +0 -4 +0 +5 +6 +7 +2 -9 -7 +0 +1 +0 +0 +0
00000660 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0 +1 +0
00000670 +0 +0 +0 +0 +0 +0 +1 +0 +0 +1 +0 +0 +0 +0 +0
00000680 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0 +1
00000690 +0 +0 +0 +0 +0 +0 -2 +4 +0 +0 +0 +2 +0 +0 +0 +0
000006A0 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0
000006B0 +0 +0 +0 +0 +0 +0 -1 -5 +2 -1 +0 +0 +0 +0 +0
000006C0 +0 +0 +0 -1 -1 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0
000006D0 +0 +0 +0 +0 +0 +0 +0 +0 +0 -1 +0 +0 +0 +0 +0
000006E0 +0 +0 +0 +0 +1 +1 +2 +1 +1 +0 +0 +0 +0 +0 +0
000006F0 +0 +0 +0 +0 +0 +0 +0 +0 -1 +1 -1 +0 +0 +0 +0
00000700 +0 +1 +1 -2 +0 -1 +0 +1 -1 +1 +0 +0 +0 +1 +0
00000710 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0
00000720 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0 -1 +0 +1 -1 +0
00000730 +0 -1 +0 +0 +0 +0 +0 +0 +0 -1 +1 +0 +0 +0 +0
00000740 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0 -1 -3 +0
00000750 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0
00000760 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0 -1 +8 -7
00000770 +0 +0 +0 +0 +0 +0 +1 -2 -11 +2 +0 +0 +0 +0 +0
00000780 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0 +2
00000790 +5 +0 -9 -10 -7 -4 +7 +9 +0 +0 +0 +0 +0 +0 +0
000007A0 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0
000007B0 +0 +0 +0 -4 -2 -1 +0 +0 +0 +0 +0 +0 +0 +0 +0
000007C0 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0
000007D0 +0 +0 +0 +0 +2 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0
000007E0 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0
000007F0 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0
00000800 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0
00000810 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0
00000820 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0
00000830 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0
00000840 +0 +0 +0 +0 +0 +0 +0 +0 +1 +0 +0 +0 +0 +0 +0
00000850 +1 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0
00000860 +0 +0 +0 +0 +0 +0 +0 -1 +0 +0 +0 +0 +0 +0 +0
00000870 +0 +0 -1 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0
00000880 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0
00000890 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0
000008A0 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0
000008B0 +0 -1 +0 +1 +0 +0 +0 +0 +0 +0 +0 +1 -2 +1 +0
000008C0 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0

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000008D0 +0 +0 +0 -1 +0 +0 +0 +1 +0 +0 +0 +2 +0 -1 +0 +0
000008E0 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0
000008F0 +0 +1 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0
00000900 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0
00000910 +0 +0 +1 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0 -1 +0
00000920 +0 +0 +0 +0 +0 -1 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0
00000930 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0 +1 +0 +0
00000940 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0
00000950 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0
00000960 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0
00000970 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0 +1 +0 +0 +0
00000980 +0 +0 +0 +0 +0 -1 +0 +1 +0 +0 +0 +0 +0 +0 +0 +0 +0
00000990 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0
000009A0 +0 +0 +0 +0 +1 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0
000009B0 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0
000009C0 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0
000009D0 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0 +1 +0 +0 +0 +0
000009E0 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0
000009F0 -1 +0 +0 +0 +0 +0 +0 +0 +0 +0 +1 +0 +1 +0 +0 +0 +0
00000A00 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0
00000A10 +1 +0 +0 +0 -1 +0 +0 +0 +0 +0 +1 +0 +0 +0 +0 +0 +0
00000A20 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0
00000A30 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0 +1 -2 +0 +0 +0 +0 +0
00000A40 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0
00000A50 +0 +0 +0 +0 +0 +0 +0 +0 +0 -1 +0 +1 +0 +0 +0 +0 +0
00000A60 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0
00000A70 +0 +0 +0 +0 +0 +0 -1 -1 +0 +0 +0 +0 +0 +0 +0 +0 +0
00000A80 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0
00000A90 +0 +0 +0 +0 +0 +0 +0 -1 +0 +0 +0 +0 +0 +0 +0 +0 +0
00000AA0 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0
00000AB0 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0 -1 +0 +0 +0 +0 +0 +0
00000AC0 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0
00000AD0 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0
00000AE0 +0 +0 +0 -1 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0
00000AF0 +0 +0 +0 +0 +0 +0 +0 +0 +0 -1 +0 +0 +0 +0 +0 +0 +0
00000B00 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0
00000B10 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0
00000B20 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0
00000B30 +0 +0 +0 +0 +0 +0 +0 +0 +0 +1 +0 +0 +0 +0 +0 +0 +0
00000B40 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0 -2 +0 +0 +0
00000B50 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0
00000B60 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0 -1 +1 +0 +0
00000B70 +0 +0 +0 +0 +0 +0 +0 +0 +1 +0 +0 +0 +0 +0 +0 +0 +0
00000B80 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0
00000B90 +1 +0 +0 +1 +0 +0 +1 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0
00000BA0 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0
00000BB0 +0 +0 +1 +1 -1 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0
00000BC0 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0
00000BD0 +0 +0 +0 +1 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0
00000BE0 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0
00000BF0 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0
00000C00 +0 +0 +0 +1 +0 +0 +1 -1 +0 +0 +0 +0 +0 +0 +0 +0 +0
00000C10 -1 +0 +0 +2 +0 -1 -2 +1 +1 -2 +0 +0 +0 +0 +0 +0 +0
00000C20 +1 +1 -2 -8 -1 +1 +0 -1 -5 +9 +2 +0 +0 -1 +2 +0 +0
00000C30 +0 +0 +1 -17 +0 +0 -1 -1 -18 +20 -1 +1 +0 +5 -8 +8
00000C40 +0 +0 +17 +1 +0 +0 +2 +3 -6 -10 +3 -1 +1 +0 +3 +32
00000C50 +0 -1 +5 +5 -1 +0 +5 +4 +14 -16 +1 +0 +0 -1 -17 +2
00000C60 +0 -1 -17 -3 -2 +1 -1 -9 +15 -1 +0 +1 -1 -1 -8 -4
00000C70 +0 +1 +0 +3 +1 -1 +1 -6 +3 +2 +0 +2 -1 +2 +11 +0
00000C80 +0 -3 +0 +1 +1 +0 +0 +7 +1 -3 +0 -1 -4 +0 +4 +0
00000C90 +0 +3 +0 +0 +0 +0 -2 +10 -7 +4 +0 -1 +3 -24 -2 +0
00000CA0 -1 +4 +0 +2 -1 +0 -5 +10 +2 -1 -3 +4 -1 +11 -1 +0
00000CB0 -4 +1 +0 -1 +0 +0 -2 -6 +0 +0 +1 -2 +0 +24 +0 +0
00000CC0 +1 +2 +1 +0 +0 +0 -1 -17 +0 +0 +0 -1 -26 +0 +0 +0
00000CD0 +0 -1 +0 +0 +0 +0 +22 -2 -1 +0 +0 +2 -7 -3 +0 +0
00000CE0 +0 +0 +0 +0 +0 +0 -1 +2 +1 -1 -2 -4 +8 +0 +0 +0
00000CF0 +0 +0 +0 +0 +0 +0 -1 +0 +0 +3 +2 +0 +0 +0 +0 +0
00000D00 +0 +0 +0 +0 -2 +0 +10 +6 -2 +0 +0 +0 +0 +0 +0 +0
00000D10 +1 +1 +0 +2 -3 -19 -9 -13 -13 +14 -2 +0 +0 +0 +0 +0
00000D20 +1 +1 +0 +0 +1 -1 +0 +0 +0 -2 +14 +2 -2 -2 +6 +8

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00000D30 +0 +0 +1 -2 +0 +0 +0 +1 +0 +1 +0 -17 -6 +1 -8 -9
00000D40 +0 +0 +1 -1 +0 +1 +1 -1 +0 +0 +0 -2 -1 +0 +0 -2
00000D50 +0 +0 +1 +1 -1 -8 +0 +3 -1 +0 +1 +1 +3 +1 +0 +0
00000D60 +0 +1 -7 +13 +13 +12 +14 -7 +0 +0 +0 -1 +1 +9 -7 +2
00000D70 +0 +0 -1 +2 +0 +0 -8 +4 +0 +0 -9 +2 +2 +0 +1 -12 +3
00000D80 +0 +0 +0 +0 +0 +0 +0 -2 +1 +9 +10 -4 +2 +35 +4 +0
00000D90 +0 +0 +0 +1 +0 +0 -1 +1 +0 -1 -10 -8 -21 -13 +3 +0
00000DA0 -1 +1 -1 +0 +1 -1 +0 +1 +0 +1 +1 -5 +14 +14 -2 +0
00000DB0 +0 +0 +2 +3 +2 +0 +1 +1 +0 +1 +0 +0 +1 +1 -1 +0
00000DC0 +0 -3 -1 +0 +0 -2 +2 +0 -1 -1 +0 +0 -1 +1 +0 +0
00000DD0 +0 -1 +0 +0 +0 +0 +2 -12 -4 +1 +1 +2 -20 +4 +0 +0
00000DE0 +0 +0 +0 +0 +0 +0 +0 -3 +19 +16 +15 +24 +3 +0 +0 +0
00000DF0 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0 +6 -1 +0 +0 +0 +0
00000E00 +0 +0 +0 +0 +0 +0 +1 +0 +0 +0 +0 +0 +0 +0 +0 +0
00000E10 +0 +0 +0 +4 -1 +0 +0 -1 +3 -2 +0 +0 +0 +0 +0 +0
00000E20 +0 +0 +0 -1 +0 +0 +0 +0 +0 -1 +3 +0 +0 -1 +2 +0
00000E30 +0 +0 +1 +0 +0 +0 +0 +0 -1 +2 +2 -1 +1 -1 +3 +4
00000E40 +0 +0 +1 +2 +0 +0 +0 +0 +1 +2 -1 +0 +0 +0 +1 +0
00000E50 +0 +0 -2 -1 -1 +0 +0 +1 +1 +0 +0 +0 +0 +0 -1 +0
00000E60 +0 +1 -2 +0 +0 +0 +2 -2 +0 +0 +0 -1 +1 -1 +4 +0
00000E70 +0 +0 +0 +0 +0 +0 -2 +0 -1 +0 -1 -1 +1 -1 +3 +0
00000E80 +0 +0 +0 +0 +0 +0 +0 +0 -1 +0 +0 -1 +0 +6 +0 +0
00000E90 +0 +0 +0 +0 +0 +0 +0 +0 +1 -1 +0 -2 -2 +0 +0 +0
00000EA0 +0 +0 +0 +0 +0 +0 +0 +1 +0 +0 +1 -2 +0 -2 +0 +0
00000EB0 +0 +0 -1 +0 +0 +0 +0 +0 +0 +0 +0 -1 +0 +0 +0 +0
00000EC0 +0 +0 +0 +0 +0 +1 +0 +0 +0 +0 +0 +0 -1 +0 +0 +0
00000ED0 +0 +0 +0 +0 +0 +0 +2 -3 +0 +0 +0 +2 +6 +0 +0 +0
00000EE0 +0 +0 +0 +0 +0 +0 +0 -1 +0 -1 +0 +2 +0 +0 +0 +0
00000EF0 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0 -1 +0 +0 +0 +0 +0
00000F00 +0 -9 -1 -2 +5 +1 +1 +0 +1 +33 -2 -2 +5 +1 +2 -3
00000F10 -4 -14 -3 +2 +76 +4 +5 +17 +3 -37 +1 -15 -8 +3 -1 +80
00000F20 -5 +14 -2 -11 +2 +7 -16 +15 -2 +3 -2 +29 -2 +1 -51 -8
00000F30 +6 -4 +3 +4 +6 +4 +35 -1 -1 +1 -2 +8 -3 -7 +17 +1
00000F40 +1 -4 +35 -4 +34 -5 +2 -1 +3 +0 +0 +2 +3 -17 +46 +10
00000F50 -2 +4 -9 -5 -2 +3 +4 +0 +1 +4 +28 +33 +2 -3 +14 -6
00000F60 -1 +0 -4 -1 -7 +38 +60 -5 -3 +2 +6 +1 +4 +4 -3 +1
00000F70 -1 -3 -2 -7 -28 -5 -31 +8 +2 +0 +0 -8 +56 +85 +24 -3
00000F80 +0 -10 +3 -4 +4 +2 +1 +0 +1 +4 +2 +4 +15 +10 +6 -9
00000F90 -1 -1 -4 +1 +5 +2 +0 +4 +1 +13 -3 +10 -11 -4 +2 +7
00000FA0 -1 +0 -2 +1 -14 -3 +2 +2 +0 -1 -1 +3 +0 -5 -9 -4
00000FB0 -2 +2 -5 -28 +1 +7 +17 +1 +0 +0 +0 -18 +5 +15 -6 +0
00000FC0 +55 -4 +34 -14 +18 -33 +7 -1 -16 +19-109 -29 +19+123 +10 -6
00000FD0 -31 +13-129 +32 +31 -43 +7 +9 +83 -29 -34 +15 +32 -44 -12 -18
00000FE0 +79 +31 -21 -40 +58 -51 -33 +63 -8 +35 -31 -13 -10 -20 -44+102
00000FF0 -11 +9 +2 +17-136 +4 -58+208 -49 +6 +4 +11 -83 -38 +84 +54

```

4.2.4.2.3 Cr Component Data

The following is a dump of the Cr component data, as shown in the figure illustrating three-level DWT decomposition in section 3.1.8.1.4.

```

00000000 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0
00000010 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0
00000020 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0
00000030 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0
00000040 +0 +0 +0 +0 +0 +0 +0 +0 -1 +0 -1 +0 +0 +1 -1 +0
00000050 -1 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0
00000060 +0 +0 +1 +0 +0 +0 +0 +0 +2 +0 +0 +0 +0 +0 +1 +0
00000070 +2 -1 +2 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0
00000080 +0 +0 +1 +0 +0 +0 -13 +2 -1 +0 +0 +0 +0 +0 +0 +0
00000090 +0 +1 -10 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0
000000A0 +0 +0 +0 +0 +0 +1 -1 -1 +0 +0 +0 +0 +0 +0 +0 +0
000000B0 +0 +7 -4 -1 -1 +0 +0 +0 +0 +0 +0 +0 -1 +1 +0 +0
000000C0 +0 +0 +0 +0 +0 +1 +12 +0 +0 +0 +0 +0 +0 +0 +0 +0
000000D0 +0 +8 +2 +0 +0 +0 +0 +0 +0 +0 +0 -1 +3 -3 +3 -1
000000E0 +0 +0 +0 +0 +0 -7 +6 +0 +0 +0 +0 +0 +0 +0 +0 +0
000000F0 -1 -6 +0 +4 +0 +0 +0 +0 +0 +0 +0 +0 +0 +2 +1 +1

```

```

00000100 +0 +0 +0 +0 +0 -7 -4 +0 +0 +0 +0 +0 +0 -2 -1 +0
00000110 +2 -6 -4 +1 +0 +0 +0 +0 +0 +0 +0 +0 +0 -3 +0
00000120 +0 +0 +0 +0 +1 +9 +1 +2 +0 +0 +0 +0 +0 -2 +0 +0
00000130 +6 +0 -3 -1 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0
00000140 +0 +0 +0 +0 -3 +9 -1 -3 +0 +0 +0 +0 +0 +0 +1 +0
00000150 +0 +1 +5 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0 +4 +0 +0
00000160 +0 +0 +0 +0 -12 +0 +0 +0 +2 +0 +0 +0 +0 +0 +0 +0
00000170 -6 -3 +3 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0 -1 +0 +0
00000180 +0 +0 +0 +1 +0 +0 +1 +1 +0 +0 +0 +0 +0 +0 +0 +4
00000190 -1 -6 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0 -4 +0 +0
000001A0 +0 +0 +0 +0 +13 -1 +0 +0 +0 +0 +0 +0 +0 -1 +0 +3
000001B0 +1 +2 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0 +4 +0 +0 +0
000001C0 +0 +0 +0 +0 -2 +0 +0 +0 -1 +2 +0 +0 +0 +0 +0 -1 +0
000001D0 -1 +5 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0 +1 -1 +0 +0
000001E0 +0 +0 +0 -1 +0 +0 -1 +0 +1 +0 +0 +0 +0 +1 -1 +0
000001F0 -3 +1 +0 +0 +0 +0 +0 +0 +0 +0 +0 -1 -5 +0 +0 +0
00000200 +0 +0 +0 +2 +0 +0 -1 +0 +0 +0 +0 +0 +0 +0 +4 +0
00000210 -1 +0 +1 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0
00000220 +0 +0 -1 +1 +0 +0 +0 +0 +0 +0 +0 +0 +0 -1 -1 +1
00000230 +7 +0 +0 +0 +0 +0 +0 +0 +0 +0 -1 +1 +0 +0 +0 +0
00000240 +0 +0 -1 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0 +1 -3 -3
00000250 +2 +0 +0 +0 +0 +0 +0 +0 +0 +0 -1 +1 -1 +0 +0 +0
00000260 +0 +0 +1 +0 +0 +0 -1 +0 +0 +0 +0 +0 +0 +2 +0 -5
00000270 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0 +1 -7 +0 +0 +0 +0
00000280 +0 +0 +2 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0 +2 +1 +3
00000290 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0 +6 -1 +0 +0 +0 +0
000002A0 +0 -2 +0 +0 +0 +0 -1 -1 +0 +0 +0 +0 +0 -2 -1 +4
000002B0 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0 +3 +1 +0 +0 +0 +0
000002C0 +0 -1 +0 +0 -1 -1 +0 +0 +0 +0 +0 +0 +0 -1 -6 +0
000002D0 +0 +0 +0 +0 +0 +0 +0 +0 +0 -1 -8 +0 +0 +0 +0
000002E0 +1 +2 +0 +0 +0 +0 +0 +0 +1 +0 +0 +0 +0 +0 -1 +0
000002F0 +0 +0 +0 +0 +0 +0 +0 +0 +0 +5 -4 +0 +0 +0 +0 +0
00000300 -1 +2 +0 +0 -1 +0 +0 +0 +0 +0 +0 +0 +0 +1 +6 +0
00000310 +0 +0 +0 +0 +0 +0 +0 +0 +0 +7 +1 +0 +0 +0 +0 +0
00000320 -1 +0 +0 +0 +0 +0 +1 +1 +0 +0 +0 +0 +0 -4 +3 +0
00000330 +0 +0 +0 +0 +0 +0 +0 +0 -1 -4 +0 +0 +0 +0 +0 +0
00000340 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0 -5 -2 +0
00000350 +0 +0 +1 +1 +0 +0 +0 +0 +1 -7 +0 +0 +0 +0 +0 +0
00000360 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0 -1 +1 +1
00000370 +0 -1 +0 +1 +0 +0 +0 +0 +7 +0 +0 +0 +0 +0 +0 +0
00000380 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0 -2 +0
00000390 -1 +0 +0 +1 +0 -1 +1 +1 -1 +0 +0 +0 +0 +0 +0 +0
000003A0 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0
000003B0 -1 +0 -1 +0 +1 +0 -1 +0 +0 +0 +0 +0 +0 +0 +0 +0
000003C0 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0
000003D0 +0 +0 +0 +2 -1 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0
000003E0 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0
000003F0 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0
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00000410 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0
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00000430 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0
00000440 +0 +0 +0 +0 +0 +0 +0 +1 -10 -5 +11 +9 +6 +5 +9 +11
00000450 -11 -1 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0
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00000480 -1 -1 -1 +0 +0 +0 -1 +1 +0 +0 +0 +0 +0 +0 +0 +0
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000004A0 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0
000004B0 +0 +1 -2 +0 +3 -4 +0 +0 +0 +0 +0 +0 -1 -4 -1 -1
000004C0 +0 +0 +0 +0 +0 +0 +1 +0 +0 +0 +0 +0 +0 +0 +0 +0
000004D0 +0 +0 +0 +0 +0 +0 +4 -3 -3 -2 -2 -4 -1 +1 +3 +0
000004E0 +0 +0 +0 +0 +0 +0 -1 +0 +0 +0 +0 +0 +0 +0 -1 +0
000004F0 +0 +1 -1 +0 +0 +0 +0 -1 +1 +2 +2 +0 +0 +0 +0 +0
00000500 +0 +0 +0 +0 +0 +0 +0 -1 +0 +0 +0 +0 +0 +0 +0 +0
00000510 +0 +0 +0 +1 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0 +1 +2
00000520 +0 +0 +0 +0 +0 -1 +1 +0 +0 +0 +0 +0 +0 +0 +0 +0
00000530 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0 -3 +0
00000540 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0 -1 +2 +1 -1 +1
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00000560 +0 +0 +0 +0 +0 +0 +0 +0 +0 +3 +2 +1 +0 +0 +0 +0
00000570 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0
00000580 +0 +0 +0 +0 -1 +6 +8 -5 -7 -5 -4 -5 -4 +5 +0 +0
00000590 -1 +0 +0 +0 +0 +0 +0 +0 +0 -1 -1 +0 +0 +0 +0 +0
000005A0 +0 +0 +0 +0 +0 -2 -8 +1 +0 -1 +0 -1 -2 +0 +1 -6 +4
000005B0 +0 -1 +1 +0 +0 +0 +0 +0 +0 +0 +0 +1 +0 -1 +0 +0
000005C0 +0 +0 +0 +0 -1 +0 +1 +0 +0 +0 +0 +1 +4 -4 +0 +0
000005D0 +0 +1 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0 +3 +0 +0
000005E0 +0 +0 +0 +0 +1 +0 +0 +0 +0 +0 +0 +0 +0 +0 +4 -1
000005F0 +1 -4 +5 +0 +0 +0 +0 +0 +0 +0 +0 +1 +2 -1 +0 +0
00000600 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0
00000610 -1 -1 +0 -5 +4 +4 +3 +3 +4 +4 -1 -4 +0 +0 +0 +0
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00000630 -1 +4 -5 +0 +1 -1 -3 -3 -1 +1 -3 -5 +1 +0 +0 +0
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00000650 +1 +0 +0 +5 +0 -5 -6 -5 -1 +6 +4 +0 -1 +0 +0 +0
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00000670 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0
00000680 +0 +0 +0 +0 +0 +0 +0 -1 +0 +0 +0 +0 +0 +0 +0 -1
00000690 +1 +0 +0 +0 +0 +0 +0 -1 +0 +0 +1 -1 +0 +0 +0 +0
000006A0 -1 +0 +0 +0 +0 +0 +0 +0 +0 -1 +0 +0 +0 +0 +0 +0
000006B0 +0 +0 +0 +0 +0 +0 +0 +0 +1 +0 +0 +0 +0 +0 +0 +0
000006C0 +0 +1 +0 +0 +0 +0 +0 +0 +0 +0 -1 +0 +0 +0 +0 +0
000006D0 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0
000006E0 +0 +0 +0 +0 +1 +2 +1 +1 +1 +0 +0 -1 +0 +0 +0 +0
000006F0 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0 -1 +1 +0 +0 +0 +0
00000700 -1 +2 +1 -2 -2 +1 +0 -1 +0 -1 +1 +0 +0 +0 +0 +0
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00000720 +0 -1 +0 +0 +0 +0 +0 +0 +0 +0 +0 -1 +1 -1 +1 +0
00000730 +0 +0 +0 +0 +0 +0 +0 +0 +0 +1 -1 +0 +0 +0 +0 +0
00000740 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0 +1 +1 +0
00000750 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0
00000760 +0 +1 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0 -4 +2
00000770 +0 +0 +0 +0 +0 +0 +0 +1 +7 -2 +0 +0 +0 +0 +0 +0
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00000790 -2 -1 +5 +6 +4 +3 -5 -6 +1 +0 +0 +0 +0 +0 +0 +0
000007A0 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0
000007B0 +0 +0 +0 +4 +2 +1 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0
000007C0 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0
000007D0 +0 +0 +0 +0 -2 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0
000007E0 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0
000007F0 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0
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00000850 -1 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0
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00000880 +0 +0 +0 +0 +0 +0 -1 +0 +0 +0 +0 +0 +0 +0 +0 +0
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000008A0 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0
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000008C0 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0
000008D0 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0 -1 +0 +1 +0 +0 +0
000008E0 +0 +0 +0 +0 +0 -1 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0
000008F0 +0 -1 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0
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00000910 +0 +0 -1 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0 +1 -1
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00000980 +0 +0 +0 +0 +0 +1 +0 -1 +0 +0 +0 +0 +0 +0 +0 +0
00000990 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0
000009A0 +0 +0 +0 +0 -2 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0 -1
000009B0 +0 +1 +0 +0 +0 +0 +0 +0 +0 +0 +0 +1 +0 +0 +0 +0

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000009C0 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0 -1 +0 +0
000009D0 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0
000009E0 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0 -1 +0
000009F0 +1 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0 -1 +0 +0
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00000A10 -1 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0
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00000A70 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0
00000A80 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0 +1
00000A90 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0 +1 +0 +0 +0 +0 +0
00000AA0 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0
00000AB0 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0
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00000AF0 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0
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00000B60 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0
00000B70 +0 +0 +0 +0 +0 +0 +0 +0 -1 +0 +0 +0 +0 +0 +0 +0
00000B80 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0
00000B90 -1 +0 +0 +0 +0 +0 -1 +0 +0 +0 +0 +0 +0 +0 +0 +0
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00000BE0 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0
00000BF0 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0
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00000C40 +0 +0 -20 +0 -1 -1 -2 -4 +5 +5 -1 +0 -1 +1 -3 -17
00000C50 +0 +1 -5 -7 +2 +0 -3 -3 -13 +12 +0 +0 +1 +0 +7 -2
00000C60 +0 +1 +28 +0 +1 -1 +2 +10 -16 +1 +0 +1 -1 +0 +3 +1
00000C70 +0 -1 +0 -3 -2 +2 +0 +7 -5 -2 +0 +0 +0 -1 -6 +0
00000C80 +0 -2 +1 -3 -1 -1 +0 -10 -2 +4 +0 +0 +1 -1 -2 +0
00000C90 +0 +3 -1 +0 +0 +1 +3 -12 +9 -5 +0 +0 -2 +16 +1 +0
00000CA0 -1 +2 +0 -4 +2 +0 +7 -11 -2 +1 +0 -1 +0 -7 +0 +0
00000CB0 -3 -1 +0 +1 -1 +0 +2 +6 +0 +0 +0 +0 +0 -16 +0 +0
00000CC0 +1 -1 -1 -1 +1 +0 +1 +12 +0 +0 +0 +0 +18 +0 +0 +0
00000CD0 +0 +0 +0 +0 +0 +0 -14 +1 +0 +0 +0 -2 +4 +2 +0 +0
00000CE0 +0 +0 +0 +0 +0 +0 +1 -1 -1 +3 +1 +3 -5 +0 +0 +0
00000CF0 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0 -3 -1 +0 +0 +0 +0
00000D00 +0 +0 +0 +0 +2 +0 -13 -8 +3 +0 +0 +0 +0 +0 +0 +0
00000D10 -1 -1 +0 -3 +3 +27 +12 +19 +20 -21 +3 +0 +0 +0 +0 +0
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00000D30 +0 +0 -1 +5 -1 +0 +0 -2 +0 -1 -2 +7 +2 +0 +5 +3
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00000D50 +0 +0 -1 -1 +3 +5 +1 -2 +2 -1 +0 +0 +1 +0 +0 +0
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00000D70 +0 +0 +3 +2 +0 +0 +9 -5 +0 +11 -2 -1 -1 -2 +5 -1
00000D80 +0 +0 +0 +0 +1 +0 +0 +3 -2 -11 -10 +2 -2 -18 -3 +0
00000D90 +0 +0 -1 -2 +0 +0 +0 -2 +1 +2 +11 +9 +12 +9 -2 +0
00000DA0 +0 +0 +1 -1 -3 +2 +0 -1 +0 +0 +0 +1 -3 -3 +0 +0
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00000DC0 +1 -4 -2 -1 -1 +0 +3 +1 +0 +0 +0 +0 +0 -1 +0 +0
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00000DF0 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0 -6 +1 +0 +0 +0 +0
00000E00 +0 +0 +0 +0 +0 +0 -1 +1 +0 +0 +0 +0 +0 +0 +0 +0
00000E10 +0 +0 +0 -6 +1 +0 -1 +2 -4 +3 +0 +0 +0 +0 +0 +0

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00000E20 +0 +0 +0 +0 +0 +0 +0 +0 -1 +1 -1 +0 +0 +0 -1 +0
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00000E40 +0 +0 -2 -2 +0 +0 +0 -1 -2 +1 +0 +0 +0 +0 -2 -3
00000E50 +0 +0 +3 +1 +1 +0 +0 -1 -1 +0 +0 +0 +0 +0 +0 +0
00000E60 +0 -1 +3 +0 +1 -1 -2 +2 +0 +0 +0 +0 +0 +0 -1 +0
00000E70 +0 +0 +1 -1 +0 -1 +2 +1 +2 -1 +0 +0 +0 -1 -1 +0
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00000E90 +0 +0 +0 +0 +0 +0 +0 +0 -1 +1 +0 +0 +1 +0 +0 +0
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00000ED0 +0 +0 +0 +0 +0 +0 +0 +2 +0 +0 +0 -1 -4 +0 +0 +0
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00000EF0 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0 +1 +0 +0 +0 +0 +0
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00000F10 +5 +22 -1 -1 -54 -2 -2 -4 -4 +52 -5 +17 +7 +1 -3 -33
00000F20 -4 -25 +1 +15 +3 +2 +2 -11 +4 -14 +5 -34 +6 -1 +35 +6
00000F30 +11 +4 -2 -5 -4 -7 -21 +1 -2 +0 +1 -6 +1 +3 -11 +0
00000F40 -2 +6 -45 +14 -45 +4 -1 +1 -3 +1 +1 -7 -7 +5 -19 -4
00000F50 +2 -4 +8 +4 -1 +3 +0 +0 +2 -15 -27 -36 -2 +5 -1 +14
00000F60 +2 -5 +7 +0 +8 -39 -41 +6 +1 +4 -12 -6 +0 -2 -2 -1
00000F70 -4 -5 -3 +6 +14 -2 +22 -5 -2 -1 +0 +5 -33 -51 -15 +2
00000F80 +0 +14 -1 +8 -5 -1 +0 +0 -1 -2 -5 -5 -10 -5 -3 +2
00000F90 +2 +5 +5 -4 -8 -1 +0 -3 +2 -13 +5 -14 +15 -1 -1 -12
00000FA0 +1 -1 +2 -3 +15 -1 +3 -3 +1 +5 -4 -2 +0 +2 +6 +2
00000FB0 -4 +0 +2 +15 +0 -5 -12 +0 +0 +0 +0 +12 -3 -10 +4 +0
00000FC0 -68 +7 -44 +27 -28 +42 -3 +3 +1 -23+147 +12 +8-162 +6 +3
00000FD0 +10 -12+147 -60 -13 -24 -1 +1 -44 +40 +33 -24 -22 +48 -14 -22
00000FE0 -38 -3 -1 +61 -68 +60 -4 -37 +1 -18 +2 +29 +29 +8 +18 -74
00000FF0 +10 +5 -17 -22+108 -16 +33-124 +22 -7 +0 -4 +48 +26 -46 -33

```

4.2.4.3 Inverse Quantization/DWT

The following sections present the three-level inverse DWT of the Y component data. The inverse DWT process follows the steps shown in the figure illustrating three-level DWT decomposition in section 3.1.8.1.4, in reverse order. The inverse DWT steps for the Cb and Cr components are the same as for the Y component, so the intermediate data dumps for these two components have been omitted, but their final reconstructed data is presented in sections 4.2.4.4 and 4.2.4.5.

Microsoft RDP 7.1 and Microsoft RDP 8.0 both use 11.5 fixed-point integers for IDWT and color conversion, while Microsoft RDP 8.1 uses 12.4 fixed-point integers. This is due to differences in dequantization (section 3.1.8.2.3). The example data in the following sections is shown for both 11.5 and 12.4 fixed-point integers.

4.2.4.3.1 Level-3 Sub-bands

The following are annotated dumps of the four level-3 dequantized sub-bands (LL3, LH3, HL3, and HH3). The LL3 sub-band first gives inverse differential encoding before being de-quantized (section 3.1.8.1.6). The level-3 sub-bands have dimensions of 8 x 8.

4.2.4.3.1.1 LL3

The following is a dump of the LL3 sub-band, as shown in the figure illustrating three-level DWT decomposition in section 3.1.8.1.4.

The sample data for 11.5 fixed-point integers (RDP 7.1/8.0) is:

```

00000000      -32      +0      -32      -480      -384      -384      -608      -736
00000008      +864      +448      +96      +1184      +352      -384      -480      -512
00000010      +928      +800      +1472      +3296      +2752      +1376      +832      +352
00000018      +1216      +992      +1792      +2752      +2016      +4096      +3680      +864
00000020      +2304      -992      +1728      +4000      +288      +3104      +2144      +320
00000028      +2144      -1088      +1920      +2720      +3264      +3424      +3616      +192

```

00000030	+672	-320	+320	-512	+4032	+3456	+2720	-320
00000038	+1888	+1664	+1248	+960	+1120	+1696	+480	-96

The sample data for 12.4 fixed-point integers (RDP 8.1) is:

00000000	-16	+0	-16	-240	-192	-192	-304	-368
00000008	+432	+224	+48	+592	+176	-192	-240	-256
00000010	+464	+400	+736	+1648	+1376	+688	+416	+176
00000018	+608	+496	+896	+1376	+1008	+2048	+1840	+432
00000020	+1152	-496	+864	+2000	+144	+1552	+1072	+160
00000028	+1072	-544	+960	+1360	+1632	+1712	+1808	+96
00000030	+336	-160	+160	-256	+2016	+1728	+1360	-160
00000038	+944	+832	+624	+480	+560	+848	+240	-48

4.2.4.3.1.2 HL3

The following is a dump of the HL3 sub-band, as shown in the figure illustrating three-level DWT decomposition in section 3.1.8.1.4.

The sample data for 11.5 fixed-point integers (RDP 7.1/8.0) is:

00000000	+0	+0	-64	-64	+32	+0	-32	-64
00000008	+0	-32	+256	+192	+96	+0	-32	-192
00000010	+0	+128	+160	-416	-1696	-96	-64	+0
00000018	-64	-480	-224	+800	+256	+96	+224	-800
00000020	+832	-384	+160	+640	+192	+224	-160	-416
00000028	+64	-64	+160	-1728	+320	-64	+960	+96
00000030	-1472	+352	-288	-32	-64	+32	-576	-64
00000038	+256	-96	+96	-160	-128	-32	-160	-64

The sample data for 12.4 fixed-point integers (RDP 8.1) is:

00000000	+0	+0	-32	-32	+16	+0	-16	-32
00000008	+0	-16	+128	+96	+48	+0	-16	-96
00000010	+0	+64	+80	-208	-848	-48	-32	+0
00000018	-32	-240	-112	+400	+128	+48	+112	-400
00000020	+416	-192	+80	+320	+96	+112	-80	-208
00000028	+32	-32	+80	-864	+160	-32	+480	+48
00000030	-736	+176	-144	-16	-32	+16	-288	-32
00000038	+128	-48	+48	-80	-64	-16	-80	-32

4.2.4.3.1.3 LH3

The following is a dump of the LH3 sub-band, as shown in the figure illustrating three-level DWT decomposition in section 3.1.8.1.4.

The sample data for 11.5 fixed-point integers (RDP 7.1/8.0) is:

00000000	-96	+0	+32	-320	-96	+32	-32	+32
00000008	-160	-32	-96	+96	+224	-448	-416	+320
00000010	+0	-32	+352	+64	+160	+64	+384	+0
00000018	-256	+768	-672	-1568	-128	+320	+288	+992
00000020	-32	+160	+320	+32	+416	-1824	-1664	+288
00000028	+384	-192	-576	+160	+32	-96	-128	-32
00000030	+416	+672	+256	+352	+96	+224	+224	-64
00000038	-96	-32	+0	+64	-448	-608	-224	+32

The sample data for 12.4 fixed-point integers (RDP 8.1) is:

00000000	-48	+0	+16	-160	-48	+16	-16	+16
00000008	-80	-16	-48	+48	+112	-224	-208	+160
00000010	+0	-16	+176	+32	+80	+32	+192	+0
00000018	-128	+384	-336	-784	-64	+160	+144	+496
00000020	-16	+80	+160	+16	+208	-912	-832	+144
00000028	+192	-96	-288	+80	+16	-48	-64	-16
00000030	+208	+336	+128	+176	+48	+112	+112	-32
00000038	-48	-16	+0	+32	-224	-304	-112	+16

4.2.4.3.1.4 HH3

The following is a dump of the HH3 sub-band, as shown in the figure illustrating three-level DWT decomposition in section 3.1.8.1.4.

The sample data for 11.5 fixed-point integers (RDP 7.1/8.0) is:

00000000	-32	-32	-96	-64	+0	+0	-32	-32
00000008	-32	-224	+96	+128	+224	-32	-192	-448
00000010	-32	-224	+96	-384	-512	-64	+64	-32
00000018	-288	+32	+224	-672	+800	-128	-64	-736
00000020	+64	+64	+96	-128	+704	-128	+160	-128
00000028	-64	-64	+128	-224	+0	+0	+96	+64
00000030	+544	-192	+224	+160	+96	+32	-160	+0
00000038	+32	+0	+0	+192	+32	-128	+64	+0

The sample data for 12.4 fixed-point (RDP 8.1) is:

00000000	-16	-16	-48	-32	+0	+0	-16	-16
00000008	-16	-112	+48	+64	+112	-16	-96	-224
00000010	-16	-112	+48	-192	-256	-32	+32	-16
00000018	-144	+16	+112	-336	+400	-64	-32	-368
00000020	+32	+32	+48	-64	+352	-64	+80	-64
00000028	-32	-32	+64	-112	+0	+0	+48	+32
00000030	+272	-96	+112	+80	+48	+16	-80	+0
00000038	+16	+0	+0	+96	+16	-64	+32	+0

4.2.4.3.1.5 Inverse DWT-X (LL3 - HL3)

The following is a dump of the L2 sub-band, as shown in the figure illustrating three-level DWT decomposition in section 3.1.8.1.4.

The sample data for 11.5 fixed-point integers (RDP 7.1/8.0) is:

00000000	-32	-16	+0	+0	+0	-336	-416	-520
00000008	-368	-320	-400	-496	-592	-704	-688	-816
00000010	+864	+664	+464	+160	-16	+984	+960	+968
00000018	+208	+80	-432	-448	-464	-496	-400	-784
00000020	+928	+832	+736	+1288	+1328	+2696	+3424	+2784
00000028	+3808	-352	+2272	+1400	+912	+520	+384	+384
00000030	+1280	+1144	+1264	+744	+2144	+1856	+2464	+3576
00000038	+1488	+3216	+3920	+3912	+3520	+2784	+1152	-448
00000040	+1472	+1792	-1216	-456	+1840	+3040	+3600	+3016
00000048	-128	+1768	+2896	+2952	+2112	+1040	+608	-224
00000050	+2080	+624	-1088	+264	+1872	+3008	+3504	+280
00000058	+3968	+4272	+3296	+3104	+3168	+3336	-336	-144
00000060	+2144	-1752	+240	+968	+288	-608	-352	+1800
00000068	+4080	+3648	+3472	+3296	+2992	+344	+0	-128
00000070	+1632	+2120	+1584	+1224	+1248	+1312	+992	+808
00000078	+1264	+1264	+1776	+1112	+576	-24	+16	-112

The sample data for 12.4 fixed-point integers (RDP 8.1) is:

00000000	-16	-8	+0	+0	+0	-168	-208	-260
00000008	-184	-160	-200	-248	-296	-352	-344	-408
00000010	+432	+332	+232	+80	-8	+492	+480	+484
00000018	+104	+40	-216	-224	-232	-248	-200	-392
00000020	+464	+416	+368	+644	+664	+1348	+1712	+1392
00000028	+1904	-176	+1136	+700	+456	+260	+192	+192
00000030	+640	+572	+632	+372	+1072	+928	+1232	+1788
00000038	+744	+1608	+1960	+1956	+1760	+1392	+576	-224
00000040	+736	+896	-608	-228	+920	+1520	+1800	+1508
00000048	-64	+884	+1448	+1476	+1056	+520	+304	-112
00000050	+1040	+312	-544	+132	+936	+1504	+1752	+140
00000058	+1984	+2136	+1648	+1552	+1584	+1668	-168	-72
00000060	+1072	-876	+120	+484	+144	-304	-176	+900
00000068	+2040	+1824	+1736	+1648	+1496	+172	+0	-64
00000070	+816	+1060	+792	+612	+624	+656	+496	+404
00000078	+632	+632	+888	+556	+288	-12	+8	-56

4.2.4.3.1.6 Inverse DWT-X (LH3 – HH3)

The following is a dump of the H2 sub-band, as shown in the figure illustrating three-level DWT decomposition in section 3.1.8.1.4.

The sample data for 11.5 fixed-point integers (RDP 7.1/8.0) is:

00000000	-64	-80	+32	+0	+96	-264	-240	-280
00000008	-64	-16	+32	+8	-16	-40	+64	+0
00000010	-128	-80	+96	-416	-32	+168	-16	+272
00000018	+48	+200	-544	-488	-304	-216	+640	-256
00000020	+32	+0	+96	-192	+416	+504	+208	-360
00000028	+608	-544	+352	+240	+384	+312	-16	-80
00000030	+32	-112	+896	+112	-800	-624	-1344	-2112
00000038	-192	+1496	-16	-72	+384	+760	+1392	-80
00000040	-96	+128	+96	+296	+240	+336	+48	-168
00000048	+128	+416	-2112	-2152	-1680	-384	+272	+16
00000050	+448	+32	-128	-496	-608	+56	+208	-272
00000058	+144	+24	-96	-136	-176	+48	-112	+16
00000060	-128	+1272	+496	-16	+240	+648	+160	+384
00000068	-32	+256	+160	+288	+288	-168	+16	+16
00000070	-128	-24	-48	-24	+0	-16	-32	+88
00000078	-560	-496	-560	-632	-192	+32	+0	+0

The sample data for 12.4 fixed-point integers (RDP 8.1) is:

00000000	-32	-40	+16	+0	+48	-132	-120	-140
00000008	-32	-8	+16	+4	-8	-20	+32	+0
00000010	-64	-40	+48	-208	-16	+84	-8	+136
00000018	+24	+100	-272	-244	-152	-108	+320	-128
00000020	+16	+0	+48	-96	+208	+252	+104	-180
00000028	+304	-272	+176	+120	+192	+156	-8	-40
00000030	+16	-56	+448	+56	-400	-312	-672	-1056
00000038	-96	+748	-8	-36	+192	+380	+696	-40
00000040	-48	+64	+48	+148	+120	+168	+24	-84
00000048	+64	+208	-1056	-1076	-840	-192	+136	+8
00000050	+224	+16	-64	-248	-304	+28	+104	-136
00000058	+72	+12	-48	-68	-88	+24	-56	+8
00000060	-64	+636	+248	-8	+120	+324	+80	+192
00000068	-16	+128	+80	+144	+144	-84	+8	+8
00000070	-64	-12	-24	-12	+0	-8	-16	+44
00000078	-280	-248	-280	-316	-96	+16	+0	+0

4.2.4.3.1.7 Inverse DWT-Y (L2 – H2)

The following is a dump of the LL2 sub-band, as shown in the figure illustrating three-level DWT decomposition in section 3.1.8.1.4.

The sample data for 11.5 fixed-point integers (RDP 7.1/8.0) is:

00000000	+32	+64	-32	+0	-96	-72	-176	-240
00000008	-304	-304	-432	-504	-576	-664	-752	-816
00000010	+368	+244	+248	+184	+120	-48	-24	-194
00000018	-172	-190	-240	-340	-472	-596	-624	-736
00000020	+960	+744	+400	+368	-48	+1032	+1088	+972
00000028	+216	-12	-176	-208	-304	-368	-752	-656
00000030	+712	+648	+712	+148	+480	+2032	+2176	+2444
00000038	+1944	+304	+8	-318	-324	-380	+940	-564
00000040	+976	+872	+640	+1592	+1136	+2360	+3328	+2828
00000048	+3480	-180	+2368	+1524	+872	+472	+72	+552
00000050	+1176	+1036	+896	+804	+2568	+3146	+3596	+3100
00000058	+3596	+192	+3764	+3156	+2772	+1984	+236	-68
00000060	+1248	+1200	+768	+784	+2336	+1916	+3032	+4812
00000068	+1280	+2740	+3752	+3828	+3136	+2248	+464	-368
00000070	+1440	+1268	+1320	+286	+628	+1302	+952	+260
00000078	+208	+4768	+3824	+3802	+3716	+3070	+2904	-440
00000080	+1504	+1784	-1712	-660	+2120	+3184	+4248	+4156
00000088	-96	+812	+3960	+4064	+2760	+852	-224	-192
00000090	+1512	+1420	-1200	+444	+2568	+3670	+3908	+1992
00000098	+2124	+3264	-44	-148	+68	+1410	+224	-144
000000A0	+1904	+544	-1072	+364	+2056	+2812	+3376	+500
000000A8	+3832	+4052	+4400	+4248	+4096	+3504	-416	-160
000000B0	+2840	-866	-764	-198	+48	+1038	+1836	+578
000000B8	+4216	+3828	+3728	+3462	+3164	+2050	-408	-120
000000C0	+1984	-2404	+56	+1224	+472	-960	-536	+1744
000000C8	+4024	+3508	+3440	+3220	+2936	+404	+48	-144
000000D0	+1616	+2090	+1700	+1202	+1280	+1314	+516	+1926
000000D8	+2728	+2958	+3028	+2828	+2308	-112	+60	-100
000000E0	+1760	+1496	+1360	+1244	+1128	+996	+928	+572
000000E8	+1560	+1384	+1976	+1284	+528	+44	+8	-120
000000F0	+1504	+1448	+1264	+1196	+1128	+964	+864	+748
000000F8	+440	+392	+856	+20	+144	+108	+8	-120

The sample data for 12.4 fixed-point integers (RDP 8.1) is:

00000000	+16	+32	-16	+0	-48	-36	-88	-120
00000008	-152	-152	-216	-252	-288	-332	-376	-408
00000010	+184	+122	+124	+92	+60	-24	-12	-97
00000018	-86	-95	-120	-170	-236	-298	-312	-368
00000020	+480	+372	+200	+184	-24	+516	+544	+486
00000028	+108	-6	-88	-104	-152	-184	-376	-328
00000030	+356	+324	+356	+74	+240	+1016	+1088	+1222
00000038	+972	+152	+4	-159	-162	-190	+470	-282
00000040	+488	+436	+320	+796	+568	+1180	+1664	+1414
00000048	+1740	-90	+1184	+762	+436	+236	+36	+276
00000050	+588	+518	+448	+402	+1284	+1573	+1798	+1550
00000058	+1798	+96	+1882	+1578	+1386	+992	+118	-34
00000060	+624	+600	+384	+392	+1168	+958	+1516	+2406
00000068	+640	+1370	+1876	+1914	+1568	+1124	+232	-184
00000070	+720	+634	+660	+143	+314	+651	+476	+130
00000078	+104	+2384	+1912	+1901	+1858	+1535	+1452	-220
00000080	+752	+892	-856	-330	+1060	+1592	+2124	+2078
00000088	-48	+406	+1980	+2032	+1380	+426	-112	-96
00000090	+756	+710	-600	+222	+1284	+1835	+1954	+996
00000098	+1062	+1632	-22	-74	+34	+705	+112	-72
000000a0	+952	+272	-536	+182	+1028	+1406	+1688	+250
000000a8	+1916	+2026	+2200	+2124	+2048	+1752	-208	-80
000000b0	+1420	-433	-382	-99	+24	+519	+918	+289
000000b8	+2108	+1914	+1864	+1731	+1582	+1025	-204	-60

000000c0	+992	-1202	+28	+612	+236	-480	-268	+872
000000c8	+2012	+1754	+1720	+1610	+1468	+202	+24	-72
000000d0	+808	+1045	+850	+601	+640	+657	+258	+963
000000d8	+1364	+1479	+1514	+1414	+1154	-56	+30	-50
000000e0	+880	+748	+680	+622	+564	+498	+464	+286
000000e8	+780	+692	+988	+642	+264	+22	+4	-60
000000f0	+752	+724	+632	+598	+564	+482	+432	+374
000000f8	+220	+196	+428	+10	+72	+54	+4	-60

4.2.4.3.2 Level-2 Sub-bands

The following are the dumps of the four level-2 dequantized sub-bands (LL2, LH2, HL2, and HH2). LL2 is reconstructed from level-3 sub-bands. LH2, HL2, and HH2 are generated by dequantizing the corresponding decoded sub-bands, as shown in sections 4.2.4.2 and 4.2.4.2.1.

4.2.4.3.2.1 LL2

The LL2 sub-band is the same as that shown in section 4.2.4.3.1.7.

4.2.4.3.2.2 HL2

The following is a dump of the HL2 sub-band, as shown in the figure illustrating three-level DWT decomposition in section 3.1.8.1.4.

The sample data for 11.5 fixed-point integers (RDP 7.1/8.0) is:

00000000	+64	+0	+0	+0	+0	+0	+0	+0
00000008	+0	+0	+0	+0	+0	+0	+0	+0
00000010	+64	+0	+0	+64	+0	+0	+64	+0
00000018	+0	+0	+0	+0	+0	-64	+0	+0
00000020	-64	-64	+0	-320	+192	-128	+64	+0
00000028	-64	+0	+0	+0	+0	+64	-256	-64
00000030	+0	+0	+64	-320	-128	+64	+64	+64
00000038	+384	-128	-64	+0	+64	-256	+1344	+384
00000040	+0	+0	-320	-64	+64	+128	+256	+256
00000048	+192	+320	+0	+0	-64	+256	-512	-704
00000050	+0	+0	-128	+512	-64	+0	+192	+64
00000058	-1152	+1024	+64	-64	+128	+0	-256	-256
00000060	+0	+0	-384	+64	-192	-64	+64	+896
00000068	-1472	+64	+0	+64	+0	+64	-192	-64
00000070	+0	+0	+0	-320	-128	+192	-64	+704
00000078	-512	-192	+0	+64	+0	-64	-192	+64
00000080	+0	+896	+64	+0	-64	+0	+0	-960
00000088	-128	+448	+64	-64	+64	-192	-64	-64
00000090	-128	-896	+0	+64	+0	+0	+320	-1152
00000098	+896	-448	-64	-64	-128	+832	+64	-64
000000A0	+192	-896	+64	-128	+128	-64	+704	-1024
000000A8	-128	+128	-64	+64	+0	-576	+0	-64
000000B0	+1216	+64	+64	+64	+0	+128	+128	+512
000000B8	+0	+0	+0	+0	+64	-832	+0	+0
000000C0	-384	-192	-64	+0	-128	-128	+384	+832
000000C8	+0	+0	+0	+64	+576	+64	+0	+0
000000D0	-64	+128	+0	+0	+64	+0	-320	+0
000000D8	+0	-64	+0	+0	+64	+64	+0	+0
000000E0	+0	+0	+0	+0	+0	+0	+64	-128
000000E8	-256	+64	+256	+256	-128	+0	+0	-64
000000F0	+0	+0	+0	+0	+0	+0	+0	+0
000000F8	+64	+0	-256	-64	+0	+0	+0	+0

The sample data for 12.4 fixed-point integers (RDP 8.1) is:

00000000	+32	+0	+0	+0	+0	+0	+0	+0
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00000008	+0	+0	+0	+0	+0	+0	+0	+0
00000010	+32	+0	+0	+32	+0	+0	+32	+0
00000018	+0	+0	+0	+0	+0	-32	+0	+0
00000020	-32	-32	+0	-160	+96	-64	+32	+0
00000028	-32	+0	+0	+0	+0	+32	-128	-32
00000030	+0	+0	+32	-160	-64	+32	+32	+32
00000038	+192	-64	-32	+0	+32	-128	+672	+192
00000040	+0	+0	-160	-32	+32	+64	+128	+128
00000048	+96	+160	+0	+0	-32	+128	-256	-352
00000050	+0	+0	-64	+256	-32	+0	+96	+32
00000058	-576	+512	+32	-32	+64	+0	-128	-128
00000060	+0	+0	-192	+32	-96	-32	+32	+448
00000068	-736	+32	+0	+32	+0	+32	-96	-32
00000070	+0	+0	+0	-160	-64	+96	-32	+352
00000078	-256	-96	+0	+32	+0	-32	-96	+32
00000080	+0	+448	+32	+0	-32	+0	+0	-480
00000088	-64	+224	+32	-32	+32	-96	-32	-32
00000090	-64	-448	+0	+32	+0	+0	+160	-576
00000098	+448	-224	-32	-32	-64	+416	+32	-32
000000a0	+96	-448	+32	-64	+64	-32	+352	-512
000000a8	-64	+64	-32	+32	+0	-288	+0	-32
000000b0	+608	+32	+32	+32	+0	+64	+64	+256
000000b8	+0	+0	+0	+0	+32	-416	+0	+0
000000c0	-192	-96	-32	+0	-64	-64	+192	+416
000000c8	+0	+0	+0	+32	+288	+32	+0	+0
000000d0	-32	+64	+0	+0	+32	+0	-160	+0
000000d8	+0	-32	+0	+0	+32	+32	+0	+0
000000e0	+0	+0	+0	+0	+0	+0	+32	-64
000000e8	-128	+32	+128	+128	-64	+0	+0	-32
000000f0	+0	+0	+0	+0	+0	+0	+0	+0
000000f8	+32	+0	-128	-32	+0	+0	+0	+0

4.2.4.3.2.3 LH2

The following is a dump of the HL2 sub-band, as shown in the figure illustrating three-level DWT decomposition in section 3.1.8.1.4.

The sample data for 11.5 fixed-point integers (RDP 7.1/8.0) is:

00000000	+0	+0	+0	+0	+0	+0	+0	+0
00000008	+0	+0	+0	+0	+0	+0	+0	+0
00000010	-128	-64	+64	+64	-64	-192	+0	-128
00000018	-192	+0	+0	+0	+0	+0	+0	+0
00000020	-128	-128	+0	+64	-64	+128	+0	+0
00000028	+0	+64	-64	+64	+0	+64	-512	-64
00000030	+0	+0	+64	-192	+0	+0	-64	+192
00000038	+0	+0	+64	-192	-192	-192	+192	-256
00000040	+0	+0	+0	+64	+0	+0	+192	-192
00000048	+192	-64	+64	+64	+0	+64	-320	+1280
00000050	+0	+0	+0	-64	+128	+448	-64	+0
00000058	+192	-128	+64	+0	+256	-64	+0	+64
00000060	+0	+64	-192	+128	-576	-768	-1216	+640
00000068	-64	+128	+0	-64	+64	+576	-832	+0
00000070	+0	+64	-256	-832	+0	+0	+1024	-448
00000078	+0	+1024	-192	+64	-128	-64	+128	-64
00000080	+0	+0	+0	+64	+64	+0	+0	+256
00000088	-192	-1088	-896	+128	-256	-896	-64	+0
00000090	-64	+64	+0	-64	+0	+64	+64	-128
00000098	+64	+192	+1088	+832	+960	+576	-128	+0
000000A0	+128	-192	+128	+128	-128	+128	+64	-64
000000A8	+64	+0	+0	-128	+320	+448	-64	+0
000000B0	+64	+256	-448	-896	-448	+128	-128	+0
000000B8	+0	+0	+0	+0	+0	-64	+64	+0
000000C0	-192	+1088	+512	-64	+256	+512	-576	+384
000000C8	+0	+64	+0	+0	+0	+0	+0	+0
000000D0	-64	+64	+0	+0	+0	+0	+0	-128
000000D8	-128	+128	+0	+0	+320	-64	+0	+0

000000E0	-64	+0	+0	+0	+0	+0	+0	+0
000000E8	-320	-256	-128	-384	-64	+0	+0	+0
000000F0	+0	+0	+0	+0	+0	+0	+0	+0
000000F8	+0	+0	-448	+64	+0	+0	+0	+0

The sample data for 12.4 fixed-point integers (RDP 8.1) is:

00000000	+0	+0	+0	+0	+0	+0	+0	+0
00000008	+0	+0	+0	+0	+0	+0	+0	+0
00000010	-64	-32	+32	+32	-32	-96	+0	-64
00000018	-96	+0	+0	+0	+0	+0	+0	+0
00000020	-64	-64	+0	+32	-32	+64	+0	+0
00000028	+0	+32	-32	+32	+0	+32	-256	-32
00000030	+0	+0	+32	-96	+0	+0	-32	+96
00000038	+0	+0	+32	-96	-96	-96	+96	-128
00000040	+0	+0	+0	+32	+0	+0	+96	-96
00000048	+96	-32	+32	+32	+0	+32	-160	+640
00000050	+0	+0	+0	-32	+64	+224	-32	+0
00000058	+96	-64	+32	+0	+128	-32	+0	+32
00000060	+0	+32	-96	+64	-288	-384	-608	+320
00000068	-32	+64	+0	-32	+32	+288	-416	+0
00000070	+0	+32	-128	-416	+0	+0	+512	-224
00000078	+0	+512	-96	+32	-64	-32	+64	-32
00000080	+0	+0	+0	+32	+32	+0	+0	+128
00000088	-96	-544	-448	+64	-128	-448	-32	+0
00000090	-32	+32	+0	-32	+0	+32	+32	-64
00000098	+32	+96	+544	+416	+480	+288	-64	+0
000000a0	+64	-96	+64	+64	-64	+64	+32	-32
000000a8	+32	+0	+0	-64	+160	+224	-32	+0
000000b0	+32	+128	-224	-448	-224	+64	-64	+0
000000b8	+0	+0	+0	+0	+0	-32	+32	+0
000000c0	-96	+544	+256	-32	+128	+256	-288	+192
000000c8	+0	+32	+0	+0	+0	+0	+0	+0
000000d0	-32	+32	+0	+0	+0	+0	+0	-64
000000d8	-64	+64	+0	+0	+160	-32	+0	+0
000000e0	-32	+0	+0	+0	+0	+0	+0	+0
000000e8	-160	-128	-64	-192	-32	+0	+0	+0
000000f0	+0	+0	+0	+0	+0	+0	+0	+0
000000f8	+0	+0	-224	+32	+0	+0	+0	+0

4.2.4.3.2.4 HH2

The following is a dump of the HH2 sub-band, as shown in the figure illustrating three-level DWT decomposition in section 3.1.8.1.4.

The sample data for 11.5 fixed-point integers (RDP 7.1/8.0) is:

00000000	+0	+0	+0	+0	+0	+0	+0	+0
00000008	+0	+0	+0	+0	+0	+0	+0	+0
00000010	+0	+0	+0	+128	+0	+0	+0	+0
00000018	+0	+0	+0	+0	+0	+0	+0	+0
00000020	+0	+0	+0	+0	+0	+0	+0	+0
00000028	+0	+0	+0	+0	-128	+0	-512	-128
00000030	+0	+0	+0	+0	+0	+0	-128	-128
00000038	+128	-128	+0	+0	+0	+0	+256	+256
00000040	+0	+0	+0	+384	+0	+0	+128	+128
00000048	-128	+128	+0	+0	+0	+0	-512	-1024
00000050	+0	+0	+0	-128	+0	+0	-128	-128
00000058	-128	+0	+0	+0	+0	+0	+0	+0
00000060	+0	+0	+0	+128	+128	-128	-384	+384
00000068	+0	+0	+0	-128	+128	+0	+0	+0
00000070	+0	+128	-256	+0	+0	-128	+384	+128
00000078	+256	-128	+0	+0	+0	-256	-128	+0
00000080	+0	+0	+0	+0	+0	+0	+0	+0
00000088	+128	+0	+128	+128	+0	-384	+0	+0

00000090	+0	+0	+0	+0	+0	+0	+128	+0
00000098	-128	+256	+0	-128	+128	+0	+0	+0
000000A0	+128	+128	+0	+0	+0	+0	+0	-128
000000A8	+0	+0	+0	-128	+0	-256	+0	+0
000000B0	+256	+256	+128	-128	+0	-128	+0	+0
000000B8	+0	+0	+0	+0	+0	+0	+0	+0
000000C0	-256	+256	+0	+0	+128	-256	+128	-128
000000C8	-128	+0	+0	+0	+0	+0	+0	+0
000000D0	+0	+0	+0	+0	+0	+0	+128	+0
000000D8	+0	+0	+0	-128	-256	+0	+0	+0
000000E0	+0	+0	+0	+0	+0	+0	+0	+0
000000E8	+128	+128	-128	-128	+0	+0	+0	+0
000000F0	+0	+0	+0	+0	+0	+0	+0	+0
000000F8	+0	+0	+128	+0	+0	+0	+0	+0

The sample data for 12.4 fixed-point integers (RDP 8.1) is:

00000000	+0	+0	+0	+0	+0	+0	+0	+0
00000008	+0	+0	+0	+0	+0	+0	+0	+0
00000010	+0	+0	+0	+64	+0	+0	+0	+0
00000018	+0	+0	+0	+0	+0	+0	+0	+0
00000020	+0	+0	+0	+0	+0	+0	+0	+0
00000028	+0	+0	+0	+0	-64	+0	-256	-64
00000030	+0	+0	+0	+0	+0	+0	-64	-64
00000038	+64	-64	+0	+0	+0	+0	+128	+128
00000040	+0	+0	+0	+192	+0	+0	+64	+64
00000048	-64	+64	+0	+0	+0	+0	-256	-512
00000050	+0	+0	+0	-64	+0	+0	-64	-64
00000058	-64	+0	+0	+0	+0	+0	+0	+0
00000060	+0	+0	+0	+64	+64	-64	-192	+192
00000068	+0	+0	+0	-64	+64	+0	+0	+0
00000070	+0	+64	-128	+0	+0	-64	+192	+64
00000078	+128	-64	+0	+0	+0	-128	-64	+0
00000080	+0	+0	+0	+0	+0	+0	+0	+0
00000088	+64	+0	+64	+64	+0	-192	+0	+0
00000090	+0	+0	+0	+0	+0	+0	+64	+0
00000098	-64	+128	+0	-64	+64	+0	+0	+0
000000a0	+64	+64	+0	+0	+0	+0	+0	-64
000000a8	+0	+0	+0	-64	+0	-128	+0	+0
000000b0	+128	+128	+64	-64	+0	-64	+0	+0
000000b8	+0	+0	+0	+0	+0	+0	+0	+0
000000c0	-128	+128	+0	+0	+64	-128	+64	-64
000000c8	-64	+0	+0	+0	+0	+0	+0	+0
000000d0	+0	+0	+0	+0	+0	+0	+64	+0
000000d8	+0	+0	+0	-64	-128	+0	+0	+0
000000e0	+0	+0	+0	+0	+0	+0	+0	+0
000000e8	+64	+64	-64	-64	+0	+0	+0	+0
000000f0	+0	+0	+0	+0	+0	+0	+0	+0
000000f8	+0	+0	+64	+0	+0	+0	+0	+0

4.2.4.3.2.5 Inverse DWT-X (LL2 – HL2)

The following is a dump of the L1 sub-band, as shown in the figure illustrating three-level DWT decomposition in section 3.1.8.1.4.

The sample data for 11.5 fixed-point integers (RDP 7.1/8.0) is:

00000000	-32	+128	+32	+0	-32	-16	+0	-48
00000008	-96	-84	-72	-124	-176	-208	-240	-272
00000010	-304	-304	-304	-368	-432	-468	-504	-540
00000018	-576	-620	-664	-708	-752	-784	-816	-816
00000020	+304	+386	+212	+230	+248	+200	+152	+248
00000028	+88	+20	-48	-52	-56	-13	-226	-199
00000030	-172	-181	-190	-215	-240	-290	-340	-406

00000038	-472	-518	-564	-706	-592	-664	-736	-736
00000040	+1024	+788	+808	+492	+432	+480	+528	-368
00000048	+16	+892	+1000	+804	+1120	+1158	+940	+594
00000050	+248	+6	+20	-78	-176	-192	-208	-256
00000058	-304	-352	-400	-400	-656	-1088	-496	-624
00000060	+712	+680	+648	+664	+680	+606	+276	-150
00000068	+704	+1128	+2064	+2216	+2112	+2374	+2380	+2178
00000070	+1720	+1716	+176	-116	+104	-219	-286	-321
00000078	-356	-192	-284	-456	+396	+2172	-1428	-660
00000080	+976	+924	+872	+836	+800	+652	+1784	+1332
00000088	+1136	+1828	+2264	+2956	+3136	+3366	+2572	+3426
00000090	+3256	+1794	-436	+1526	+2208	+1866	+1524	+1214
00000098	+904	+512	+376	+800	+200	-344	+1160	-248
000000A0	+1176	+1106	+1036	+998	+960	+530	+612	+2502
000000A8	+2344	+2633	+3178	+3339	+3500	+3620	+2972	+3684
000000B0	+4140	-106	+256	+3786	+3220	+3316	+3156	+2820
000000B8	+2740	+2586	+1920	+1142	+364	-236	+188	-324
000000C0	+1248	+1224	+1200	+1080	+960	+184	+944	+1800
000000C8	+2400	+1838	+2044	+2410	+3032	+3810	+4332	+4742
000000D0	+1568	-438	+3444	+3710	+3720	+3758	+3796	+3578
000000D8	+3104	+2660	+2216	+1500	+528	-240	-240	-368
000000E0	+1440	+1354	+1268	+1294	+1320	+883	+446	+9
000000E8	+852	+805	+1270	+1463	+888	+286	-60	+1434
000000F0	+112	+1592	+5120	+4136	+3920	+3845	+3770	+3855
000000F8	+3684	+3393	+3102	+2939	+3032	+944	-376	-248
00000100	+1504	+1420	+1336	+1364	-2192	-1314	-692	+730
00000108	+2152	+2556	+3216	+3732	+4248	+4442	+4636	+622
00000110	+448	+294	+652	+3074	+3704	+4012	+4064	+3284
00000118	+2760	+1966	+916	+26	-96	-240	-128	-256
00000120	+1640	+1530	+1932	-1202	-752	-170	+412	+1602
00000128	+2536	+3103	+3670	+3709	+3748	+3718	+2408	+26
00000130	+2252	+4438	+3040	+730	+212	-64	-84	-88
00000138	+164	+355	+1058	+2081	-224	-56	-144	-272
00000140	+1712	+1688	+896	-1672	-656	-2	+396	+970
00000148	+2056	+2674	+2780	+2790	+3056	+3266	+660	+486
00000150	+4408	+3974	+4052	+4466	+4368	+4180	+4248	+4284
00000158	+4064	+3928	+3792	+680	-128	-128	-128	-256
00000160	+1624	+2491	-1506	-1039	-828	-417	-262	+5
00000168	+16	+495	+974	+1597	+1708	+1239	+258	+3133
00000170	+3960	+3894	+3828	+3778	+3728	+3595	+3462	+3297
00000178	+3132	+2911	+2434	-443	+8	-56	-120	-120
00000180	+2368	-642	-2116	-1350	+184	+592	+1256	+896
00000188	+536	-404	-832	-1004	-664	+1004	+1136	+4036
00000190	+3608	+3558	+3508	+3474	+3440	+3314	+3188	+3030
00000198	+2616	+2502	+84	+178	+16	-64	-144	-144
000001A0	+1680	+1741	+2058	+2103	+1636	+1419	+1202	+1225
000001A8	+1248	+1393	+1282	+979	+676	+741	+2086	+2407
000001B0	+2728	+2859	+2990	+2897	+3060	+2944	+2828	+2552
000001B8	+2276	+1178	-176	+54	+28	-36	-100	-100
000001C0	+1760	+1628	+1496	+1428	+1360	+1302	+1244	+1186
000001C8	+1128	+1062	+996	+946	+896	+878	+604	+922
000001D0	+1752	+1104	+1480	+1776	+1816	+1934	+1028	+1258
000001D8	+464	+30	+108	+58	+8	-40	-88	-216
000001E0	+1504	+1476	+1448	+1356	+1264	+1230	+1196	+1162
000001E8	+1128	+1046	+964	+914	+864	+806	+748	+578
000001F0	+408	+512	+360	+672	+984	+70	+180	+50
000001F8	+176	+142	+108	+58	+8	-56	-120	-120

The sample data for 12.4 fixed-point integers (RDP 8.1) is:

00000000	-16	+64	+16	+0	-16	-8	+0	-24
00000008	-48	-42	-36	-62	-88	-104	-120	-136
00000010	-152	-152	-152	-184	-216	-234	-252	-270
00000018	-288	-310	-332	-354	-376	-392	-408	-408
00000020	+152	+193	+106	+115	+124	+100	+76	+124
00000028	+44	+10	-24	-26	-28	-6	-113	-99
00000030	-86	-90	-95	-107	-120	-145	-170	-203
00000038	-236	-259	-282	-353	-296	-332	-368	-368

00000040	+512	+394	+404	+246	+216	+240	+264	-184
00000048	+8	+446	+500	+402	+560	+579	+470	+297
00000050	+124	+3	+10	-39	-88	-96	-104	-128
00000058	-152	-176	-200	-200	-328	-544	-248	-312
00000060	+356	+340	+324	+332	+340	+303	+138	-75
00000068	+352	+564	+1032	+1108	+1056	+1187	+1190	+1089
00000070	+860	+858	+88	-58	+52	-109	-143	-160
00000078	-178	-96	-142	-228	+198	+1086	-714	-330
00000080	+488	+462	+436	+418	+400	+326	+892	+666
00000088	+568	+914	+1132	+1478	+1568	+1683	+1286	+1713
00000090	+1628	+897	-218	+763	+1104	+933	+762	+607
00000098	+452	+256	+188	+400	+100	-172	+580	-124
000000a0	+588	+553	+518	+499	+480	+265	+306	+1251
000000a8	+1172	+1316	+1589	+1669	+1750	+1810	+1486	+1842
000000b0	+2070	-53	+128	+1893	+1610	+1658	+1578	+1410
000000b8	+1370	+1293	+960	+571	+182	-118	+94	-162
000000c0	+624	+612	+600	+540	+480	+92	+472	+900
000000c8	+1200	+919	+1022	+1205	+1516	+1905	+2166	+2371
000000d0	+784	-219	+1722	+1855	+1860	+1879	+1898	+1789
000000d8	+1552	+1330	+1108	+750	+264	-120	-120	-184
000000e0	+720	+677	+634	+647	+660	+441	+223	+4
000000e8	+426	+402	+635	+731	+444	+143	-30	+717
000000f0	+56	+796	+2560	+2068	+1960	+1922	+1885	+1927
000000f8	+1842	+1696	+1551	+1469	+1516	+472	-188	-124
00000100	+752	+710	+668	+682	-1096	-657	-346	+365
00000108	+1076	+1278	+1608	+1866	+2124	+2221	+2318	+311
00000110	+224	+147	+326	+1537	+1852	+2006	+2032	+1642
00000118	+1380	+983	+458	+13	-48	-120	-64	-128
00000120	+820	+765	+966	-601	-376	-85	+206	+801
00000128	+1268	+1551	+1835	+1854	+1874	+1859	+1204	+13
00000130	+1126	+2219	+1520	+365	+106	-32	-42	-44
00000138	+82	+177	+529	+1040	-112	-28	-72	-136
00000140	+856	+844	+448	-836	-328	-1	+198	+485
00000148	+1028	+1337	+1390	+1395	+1528	+1633	+330	+243
00000150	+2204	+1987	+2026	+2233	+2184	+2090	+2124	+2142
00000158	+2032	+1964	+1896	+340	-64	-64	-64	-128
00000160	+812	+1245	-753	-519	-414	-208	-131	+2
00000168	+8	+247	+487	+798	+854	+619	+129	+1566
00000170	+1980	+1947	+1914	+1889	+1864	+1797	+1731	+1648
00000178	+1566	+1455	+1217	-221	+4	-28	-60	-60
00000180	+1184	-321	-1058	-675	+92	+296	+628	+448
00000188	+268	-202	-416	-502	-332	+502	+568	+2018
00000190	+1804	+1779	+1754	+1737	+1720	+1657	+1594	+1515
00000198	+1308	+1251	+42	+89	+8	-32	-72	-72
000001a0	+840	+870	+1029	+1051	+818	+709	+601	+612
000001a8	+624	+696	+641	+489	+338	+370	+1043	+1203
000001b0	+1364	+1429	+1495	+1448	+1530	+1472	+1414	+1276
000001b8	+1138	+589	-88	+27	+14	-18	-50	-50
000001c0	+880	+814	+748	+714	+680	+651	+622	+593
000001c8	+564	+531	+498	+473	+448	+439	+302	+461
000001d0	+876	+552	+740	+888	+908	+967	+514	+629
000001d8	+232	+15	+54	+29	+4	-20	-44	-108
000001e0	+752	+738	+724	+678	+632	+615	+598	+581
000001e8	+564	+523	+482	+457	+432	+403	+374	+289
000001f0	+204	+256	+180	+336	+492	+35	+90	+25
000001f8	+88	+71	+54	+29	+4	-28	-60	-60

4.2.4.3.2.6 Inverse DWT-X (LH2 - HH2)

The following is a dump of the H1 sub-band, as shown in the figure illustrating three-level DWT decomposition in section 3.1.8.1.4.

The sample data for 11.5 fixed-point integers (RDP 7.1/8.0) is:

00000000	+0	+0	+0	+0	+0	+0	+0	+0
00000008	+0	+0	+0	+0	+0	+0	+0	+0
00000010	+0	+0	+0	+0	+0	+0	+0	+0

00000018	+0	+0	+0	+0	+0	+0	+0	+0
00000020	-128	-96	-64	+0	+64	+32	+0	+192
00000028	-128	-160	-192	-96	+0	-64	-128	-160
00000030	-192	-96	+0	+0	+0	+0	+0	+0
00000038	+0	+0	+0	+0	+0	+0	+0	+0
00000040	-128	-128	-128	-64	+0	+32	+64	+0
00000048	-64	+32	+128	+64	+0	+0	+0	+0
00000050	+0	+32	+64	+0	-64	+0	+64	+64
00000058	+64	-160	+128	-64	-256	-1024	+256	+0
00000060	+0	+0	+0	+32	+64	-64	-192	-96
00000068	+0	+0	+0	+0	+0	-96	+320	-96
00000070	+0	+256	+0	-192	+128	-32	-192	-192
00000078	-192	-192	-192	-64	+64	+288	-512	+0
00000080	+0	+0	+0	+0	+0	-64	-128	+608
00000088	-192	-96	+0	+64	+128	+160	-320	+192
00000090	+192	-192	-64	+224	+0	+32	+64	+32
00000098	+0	+32	+64	+0	-64	-32	+2048	+0
000000A0	+0	+0	+0	+0	+0	+0	+0	-160
000000A8	+192	+320	+448	+224	+0	-192	+128	-32
000000B0	+320	-128	-64	+0	+64	+32	+0	+128
000000B8	+256	+96	-64	-32	+0	+32	+64	+64
000000C0	+0	+32	+64	-64	-192	-64	+64	-64
000000C8	-704	-480	-768	-1120	-960	-928	+640	+960
000000D0	-256	-64	+128	+64	+0	+0	+0	-224
000000D8	+64	+544	+512	-160	-832	-416	+0	+0
000000E0	+0	+0	+0	+160	-192	-960	-704	-352
000000E8	+0	+32	+64	+224	+896	+864	-704	-192
000000F0	-192	+896	+960	+160	-128	-32	+64	-32
000000F8	-128	-32	+64	-320	+320	-96	+0	+0
00000100	+0	+0	+0	+0	+0	+32	+64	+64
00000108	+64	+32	+0	+0	+0	+128	+256	+0
00000110	-256	-448	-1152	-1056	-960	-224	+0	+96
00000118	-320	-512	-704	-1056	+128	+64	+0	+0
00000120	-64	+0	+64	+32	+0	-32	-64	-32
00000128	+0	+32	+64	+32	+0	+160	-192	-32
00000130	+128	-128	+128	+1056	+960	+928	+896	+672
00000138	+960	+992	+512	+192	-128	-64	+0	+0
00000140	+0	+96	-320	+128	+64	+96	+128	+0
00000148	-128	+0	+128	+96	+64	+32	+0	-192
00000150	+128	+64	+0	+0	+0	-32	-64	-96
00000158	+384	+480	+576	-192	+64	+32	+0	+0
00000160	-192	+416	+0	+192	-640	-512	-896	-896
00000168	-384	-96	+192	-192	-64	-32	+0	+0
00000170	+0	+0	+0	+0	+0	+0	+0	+0
00000178	+0	-32	-64	+0	+64	+32	+0	+0
00000180	+64	+64	+1088	+1248	+384	+160	-64	+64
00000188	+192	+640	+576	-480	-512	+192	+384	+0
00000190	+128	-128	+128	+64	+0	+0	+0	+0
00000198	+0	+0	+0	+0	+0	+0	+0	+0
000001A0	-64	+0	+64	+32	+0	+0	+0	+0
000001A8	+0	+0	+0	-32	-64	+128	-192	-160
000001B0	-128	+0	+128	+64	+0	+32	+64	+32
000001B8	+512	-224	+64	+32	+0	+0	+0	+0
000001C0	-64	-32	+0	+0	+0	+0	+0	+0
000001C8	+0	+0	+0	+0	+0	+0	+0	-192
000001D0	-384	-128	-384	+0	-128	-448	-256	-384
000001D8	+0	+0	+0	+0	+0	+0	+0	+0
000001E0	+0	+0	+0	+0	+0	+0	+0	+0
000001E8	+0	+0	+0	+0	+0	+0	+0	+0
000001F0	+0	+0	+0	-256	-512	+0	+0	+0
000001F8	+0	+0	+0	+0	+0	+0	+0	+0

The sample data for 12.4 fixed-point integers (RDP 8.1) is:

00000000	+0	+0	+0	+0	+0	+0	+0	+0
00000008	+0	+0	+0	+0	+0	+0	+0	+0
00000010	+0	+0	+0	+0	+0	+0	+0	+0
00000018	+0	+0	+0	+0	+0	+0	+0	+0

00000020	-64	-48	-32	+0	+32	+16	+0	+96
00000028	-64	-80	-96	-48	+0	-32	-64	-80
00000030	-96	-48	+0	+0	+0	+0	+0	+0
00000038	+0	+0	+0	+0	+0	+0	+0	+0
00000040	-64	-64	-64	-32	+0	+16	+32	+0
00000048	-32	+16	+64	+32	+0	+0	+0	+0
00000050	+0	+16	+32	+0	-32	+0	+32	+32
00000058	+32	-80	+64	-32	-128	-512	+128	+0
00000060	+0	+0	+0	+16	+32	-32	-96	-48
00000068	+0	+0	+0	+0	+0	-48	+160	-48
00000070	+0	+128	+0	-96	+64	-16	-96	-96
00000078	-96	-96	-96	-32	+32	+144	-256	+0
00000080	+0	+0	+0	+0	+0	-32	-64	+304
00000088	-96	-48	+0	+32	+64	+80	-160	+96
00000090	+96	-96	-32	+112	+0	+16	+32	+16
00000098	+0	+16	+32	+0	-32	-16	+1024	+0
000000a0	+0	+0	+0	+0	+0	+0	+0	-80
000000a8	+96	+160	+224	+112	+0	-96	+64	-16
000000b0	+160	-64	-32	+0	+32	+16	+0	+64
000000b8	+128	+48	-32	-16	+0	+16	+32	+32
000000c0	+0	+16	+32	-32	-96	-32	+32	-32
000000c8	-352	-240	-384	-560	-480	-464	+320	+480
000000d0	-128	-32	+64	+32	+0	+0	+0	-112
000000d8	+32	+272	+256	-80	-416	-208	+0	+0
000000e0	+0	+0	+0	+80	-96	-480	-352	-176
000000e8	+0	+16	+32	+112	+448	+432	-352	-96
000000f0	-96	+448	+480	+80	-64	-16	+32	-16
000000f8	-64	-16	+32	-160	+160	-48	+0	+0
00000100	+0	+0	+0	+0	+0	+16	+32	+32
00000108	+32	+16	+0	+0	+0	+64	+128	+0
00000110	-128	-224	-576	-528	-480	-112	+0	+48
00000118	-160	-256	-352	-528	+64	+32	+0	+0
00000120	-32	+0	+32	+16	+0	-16	-32	-16
00000128	+0	+16	+32	+16	+0	+80	-96	-16
00000130	+64	-64	+64	+528	+480	+464	+448	+336
00000138	+480	+496	+256	+96	-64	-32	+0	+0
00000140	+0	+48	-160	+64	+32	+48	+64	+0
00000148	-64	+0	+64	+48	+32	+16	+0	-96
00000150	+64	+32	+0	+0	+0	-16	-32	-48
00000158	+192	+240	+288	-96	+32	+16	+0	+0
00000160	-96	+208	+0	+96	-320	-256	-448	-448
00000168	-192	-48	+96	-96	-32	-16	+0	+0
00000170	+0	+0	+0	+0	+0	+0	+0	+0
00000178	+0	-16	-32	+0	+32	+16	+0	+0
00000180	+32	+32	+544	+624	+192	+80	-32	+32
00000188	+96	+320	+288	-240	-256	+96	+192	+0
00000190	+64	-64	+64	+32	+0	+0	+0	+0
00000198	+0	+0	+0	+0	+0	+0	+0	+0
000001a0	-32	+0	+32	+16	+0	+0	+0	+0
000001a8	+0	+0	+0	-16	-32	+64	-96	-80
000001b0	-64	+0	+64	+32	+0	+16	+32	+16
000001b8	+256	-112	+32	+16	+0	+0	+0	+0
000001c0	-32	-16	+0	+0	+0	+0	+0	+0
000001c8	+0	+0	+0	+0	+0	+0	+0	-96
000001d0	-192	-64	-192	+0	-64	-224	-128	-192
000001d8	+0	+0	+0	+0	+0	+0	+0	+0
000001e0	+0	+0	+0	+0	+0	+0	+0	+0
000001e8	+0	+0	+0	+0	+0	+0	+0	+0
000001f0	+0	+0	+0	-128	-256	+0	+0	+0
000001f8	+0	+0	+0	+0	+0	+0	+0	+0

4.2.4.3.2.7 Inverse DWT-Y (L1 – H1)

The following is a dump of the LL1 sub-band, as shown in the figure illustrating three-level DWT decomposition in section 3.1.8.1.4.

The sample data for 11.5 fixed-point integers (RDP 7.1/8.0) is:

00000000	-32	+128	+32	+0	-32	-16	+0	-48
00000008	-96	-84	-72	-124	-176	-208	-240	-272
00000010	-304	-304	-304	-368	-432	-468	-504	-540
00000018	-576	-620	-664	-708	-752	-784	-816	-816
00000020	+168	+281	+138	+115	+92	+84	+76	+52
00000028	+28	+8	-12	-64	-116	-95	-201	-195
00000030	-190	-218	-247	-291	-336	-379	-422	-473
00000038	-524	-569	-614	-707	-672	-724	-776	-776
00000040	+368	+434	+244	+230	+216	+184	+152	+152
00000048	+152	+100	+48	-4	-56	+19	-162	-119
00000050	-76	-133	-190	-215	-240	-290	-340	-406
00000058	-472	-518	-564	-706	-592	-664	-736	-736
00000060	+504	+475	+446	+377	+436	+380	+324	+228
00000068	-124	+208	+156	+216	+532	+476	+165	-42
00000070	-250	-239	-101	-146	-192	-241	-290	-347
00000078	-404	-395	-514	-537	-560	-620	-680	-680
00000080	+1152	+900	+904	+524	+400	+448	+496	-464
00000088	+112	+956	+1032	+820	+1120	+1190	+1004	+674
00000090	+344	+38	-12	-78	-144	-192	-240	-288
00000098	-336	-272	-464	-368	-528	-576	-624	-624
000000A0	+708	+566	+552	+474	+524	+599	+546	-283
000000A8	+296	+1098	+1772	+1630	+1616	+1806	+1612	+1450
000000B0	+1032	+869	+194	-49	-164	-197	-103	-144
000000B8	-186	-464	-102	-508	-530	-1066	-450	-642
000000C0	+776	+744	+712	+680	+648	+622	+340	-102
000000C8	+736	+1112	+2000	+2184	+2112	+2422	+2220	+2226
000000D0	+1720	+1572	+144	-20	+72	-203	-222	-257
000000D8	-292	-16	-252	-392	+492	+2540	-1300	-660
000000E0	+876	+834	+792	+814	+836	+541	+758	+295
000000E8	+984	+1494	+2132	+2554	+2592	+2686	+3036	+2610
000000F0	+2440	+2179	-130	+361	+1364	+768	+299	+135
000000F8	-30	-96	-290	+92	+474	+1610	-1478	-454
00000100	+976	+924	+872	+820	+768	+716	+1944	+1076
00000108	+1232	+1876	+2264	+2924	+3072	+3334	+2572	+3378
00000110	+3160	+1762	-404	+1510	+2144	+1866	+1588	+1294
00000118	+1000	+592	+440	+832	+200	-472	+392	-248
00000120	+1076	+1015	+954	+909	+864	+511	+1054	+2893
00000128	+1404	+2006	+2609	+3187	+3510	+3805	+2180	+3875
00000130	+3906	+524	-170	+3040	+2666	+2639	+2484	+2081
00000138	+1806	+1621	+1308	+995	+170	-418	+3858	-302
00000140	+1176	+1106	+1036	+998	+960	+562	+676	+2278
00000148	+2344	+2521	+2954	+3195	+3436	+3636	+3068	+3604
00000150	+3884	+54	+320	+3674	+3188	+3284	+3124	+2740
00000158	+2612	+2522	+1920	+1158	+396	-236	-868	-356
00000160	+1212	+1157	+1102	+1055	+1008	+389	+794	+1775
00000168	+2884	+2859	+3475	+3474	+3474	+3619	+3764	+3877
00000170	+3350	-400	+1738	+3676	+3566	+3577	+3460	+3439
00000178	+3290	+2623	+1828	+1313	+670	-78	-442	-250
00000180	+1248	+1208	+1168	+1112	+1056	+216	+912	+1912
00000188	+2656	+1918	+2204	+2858	+3512	+4370	+3948	+4278
00000190	+1536	-342	+3412	+3678	+3688	+3742	+3796	+3626
00000198	+2944	+2340	+1992	+1596	+944	-48	-272	-400
000001A0	+1344	+1337	+1330	+1051	+900	+677	+967	+936
000001A8	+522	+513	+377	+144	+296	+488	+3240	+4584
000001B0	+424	+289	+4250	+3979	+3836	+3801	+3767	+3356
000001B8	+3458	+3826	+3427	+2067	+452	-256	-324	-324
000001C0	+1440	+1338	+1236	+1246	+1512	+1395	+766	+217
000001C8	+1204	+1029	+1622	+1911	+920	+318	-28	+1050
000001D0	+336	+1176	+4576	+4024	+3984	+3861	+3738	+3983
000001D8	+3716	+3137	+2814	+3179	+3288	+1200	-376	-248
000001E0	+1472	+1379	+1286	+1585	-676	-1648	-1211	-159
000001E8	+1662	+1840	+2531	+3213	+4152	+3860	+1008	+500
000001F0	+120	+2415	+4582	+4093	+3860	+3936	+4013	+3553
000001F8	+3094	+2623	+2153	+1306	+2124	+296	-252	-252
00000200	+1504	+1420	+1336	+1284	-2096	-850	-372	+874
00000208	+2120	+2524	+3184	+3620	+3800	+3946	+4860	+718
00000210	+672	+70	+748	+3522	+4248	+4140	+4032	+3252
00000218	+2984	+2238	+1236	+714	-320	-224	-128	-256
00000220	+1588	+1475	+1618	+33	-1424	-446	+148	+1358

00000228	+2440	+2861	+3411	+3656	+3774	+4016	+4130	+380
00000230	+982	+1502	-154	+14	+310	+1414	+1750	+1582
00000238	+774	+152	-213	-499	-16	-12	-136	-264
00000240	+1672	+1530	+1900	-1218	-752	-170	+412	+1586
00000248	+2504	+3071	+3638	+3693	+3748	+3574	+2376	+42
00000250	+2316	+4726	+3552	+730	+212	-416	-532	-472
00000258	-156	+115	+1154	+2513	-224	-56	-144	-272
00000260	+1580	+1585	+1590	-1421	-720	-166	+260	+1222
00000268	+2312	+2928	+3289	+3273	+3386	+3692	+1182	+256
00000270	+3554	+4110	+4026	+4446	+3970	+3514	+3442	+3106
00000278	+3538	+3637	+3225	+1980	-416	-212	-136	-264
00000280	+1744	+1640	+1024	-1752	-688	-34	+364	+986
00000288	+2120	+2658	+2684	+2726	+3024	+3170	+756	+598
00000290	+4280	+4006	+3988	+3938	+3888	+3732	+3832	+3996
00000298	+3392	+3192	+3248	+680	-96	-112	-128	-256
000002A0	+1732	+2129	-801	-1219	-486	+71	+499	+719
000002A8	+940	+1600	+2005	+2377	+2494	+2268	+507	+1529
000002B0	+4344	+4062	+3908	+3858	+3808	+3607	+3535	+3478
000002B8	+3934	+3899	+3865	-217	+52	-36	-124	-188
000002C0	+1720	+2235	-1346	-1199	-540	-209	+122	+453
000002C8	+272	+543	+814	+1645	+1708	+1239	+258	+3229
000002D0	+3896	+3862	+3828	+3778	+3728	+3611	+3494	+3345
000002D8	+2940	+2687	+2178	-347	-56	-88	-120	-120
000002E0	+1692	+1508	-2003	-1250	-1394	-744	-863	-910
000002E8	-316	-259	+183	+104	+538	+1017	+601	+3632
000002F0	+3720	+3742	+3636	+3610	+3584	+3462	+3341	+3187
000002F8	+2778	+2538	+1019	-84	+92	-20	-132	-132
00000300	+2432	-882	-2660	-2070	+312	+768	+1736	+1312
00000308	+632	-676	-1216	-668	-376	+924	+944	+4036
00000310	+3544	+3622	+3444	+3442	+3440	+3314	+3188	+3030
00000318	+2616	+2518	+116	+178	-16	-80	-144	-144
00000320	+2184	+541	+1587	+2192	+1646	+1373	+1357	+1380
00000328	+1276	+1478	+1041	-677	-730	+1136	+2235	+3261
00000330	+3392	+3016	+3409	+3265	+3250	+3121	+2992	+2783
00000338	+2318	+1904	-46	+108	+6	-58	-122	-122
00000340	+1680	+1709	+1482	+1463	+1444	+1339	+1234	+1193
00000348	+1152	+1073	+994	+1235	+964	+581	+1990	+2487
00000350	+2728	+2923	+2862	+2833	+3060	+2928	+2796	+2536
00000358	+2020	+1290	-208	+38	+28	-36	-100	-100
00000360	+1624	+1676	+1601	+1501	+1402	+1320	+1239	+1189
00000368	+1140	+1067	+995	+1034	+818	+953	+961	+1472
00000370	+2112	+2045	+2491	+2416	+2470	+2599	+2088	+2049
00000378	+2138	+268	+62	+104	+18	-38	-94	-158
00000380	+1824	+1644	+1464	+1412	+1360	+1302	+1244	+1186
00000388	+1128	+1062	+996	+962	+928	+814	+700	+1098
00000390	+2008	+1168	+1608	+1744	+1880	+2142	+1124	+1434
00000398	+208	+142	+76	+42	+8	-40	-88	-216
000003A0	+1552	+1504	+1456	+1384	+1312	+1266	+1220	+1174
000003A8	+1128	+1054	+980	+938	+896	+810	+724	+502
000003B0	+536	+616	+312	+1272	+1336	+322	+204	+70
000003B8	+192	+142	+92	+50	+8	-48	-104	-168
000003C0	+1536	+1492	+1448	+1356	+1264	+1230	+1196	+1162
000003C8	+1128	+1046	+964	+914	+864	+806	+748	+674
000003D0	+600	+576	+552	+800	+1304	+294	+308	+242
000003D8	+176	+142	+108	+58	+8	-56	-120	-120
000003E0	+1536	+1492	+1448	+1356	+1264	+1230	+1196	+1162
000003E8	+1128	+1046	+964	+914	+864	+806	+748	+674
000003F0	+600	+576	+552	+288	+280	+294	+308	+242
000003F8	+176	+142	+108	+58	+8	-56	-120	-120
00000400	+0	+128	+0	+0	+0	+0	+0	+0
00000408	+0	+0	+0	+0	+0	+0	+0	+0

The sample data for 12.4 fixed-point integers (RDP 8.1) is:

00000000	-16	+64	+16	+0	-16	-8	+0	-24
00000008	-48	-42	-36	-62	-88	-104	-120	-136
00000010	-152	-152	-152	-184	-216	-234	-252	-270
00000018	-288	-310	-332	-354	-376	-392	-408	-408

00000020	+84	+140	+69	+57	+46	+42	+38	+26
00000028	+14	+4	-6	-32	-58	-47	-100	-97
00000030	-95	-109	-123	-145	-168	-189	-211	-236
00000038	-262	-284	-307	-353	-336	-362	-388	-388
00000040	+184	+217	+122	+115	+108	+92	+76	+76
00000048	+76	+50	+24	-2	-28	+9	-81	-59
00000050	-38	-66	-95	-107	-120	-145	-170	-203
00000058	-236	-259	-282	-353	-296	-332	-368	-368
00000060	+252	+237	+223	+188	+218	+190	+162	+114
00000068	-62	+104	+78	+108	+266	+238	+82	-21
00000070	-125	-119	-50	-73	-96	-120	-145	-173
00000078	-202	-197	-257	-268	-280	-310	-340	-340
00000080	+576	+450	+452	+262	+200	+224	+248	-232
00000088	+56	+478	+516	+410	+560	+595	+502	+337
00000090	+172	+19	-6	-39	-72	-96	-120	-144
00000098	-168	-136	-232	-184	-264	-288	-312	-312
000000A0	+354	+283	+276	+237	+262	+299	+273	-141
000000A8	+148	+549	+886	+815	+808	+903	+806	+725
000000B0	+516	+434	+97	-24	-82	-98	-51	-72
000000B8	-93	-232	-51	-254	-265	-533	-225	-321
000000C0	+388	+372	+356	+340	+324	+311	+170	-51
000000C8	+368	+556	+1000	+1092	+1056	+1211	+1110	+1113
000000D0	+860	+786	+72	-10	+36	-101	-111	-128
000000D8	-146	-8	-126	-196	+246	+1270	-650	-330
000000E0	+438	+417	+396	+407	+418	+270	+379	+147
000000E8	+492	+747	+1066	+1277	+1296	+1343	+1518	+1305
000000F0	+1220	+1089	-65	+180	+682	+384	+149	+67
000000F8	-15	-48	-145	+46	+237	+805	-739	-227
00000100	+488	+462	+436	+410	+384	+358	+972	+538
00000108	+616	+938	+1132	+1462	+1536	+1667	+1286	+1689
00000110	+1580	+881	-202	+755	+1072	+933	+794	+647
00000118	+500	+296	+220	+416	+100	-236	+196	-124
00000120	+538	+507	+477	+454	+432	+255	+527	+1446
00000128	+702	+1003	+1304	+1593	+1755	+1902	+1090	+1937
00000130	+1953	+262	-85	+1520	+1333	+1319	+1242	+1040
00000138	+903	+810	+654	+497	+85	-209	+1929	-151
00000140	+588	+553	+518	+499	+480	+281	+338	+1139
00000148	+1172	+1260	+1477	+1597	+1718	+1818	+1534	+1802
00000150	+1942	+27	+160	+1837	+1594	+1642	+1562	+1370
00000158	+1306	+1261	+960	+579	+198	-118	-434	-178
00000160	+606	+578	+551	+527	+504	+194	+397	+887
00000168	+1442	+1429	+1737	+1737	+1737	+1809	+1882	+1938
00000170	+1675	-200	+869	+1838	+1783	+1788	+1730	+1719
00000178	+1645	+1311	+914	+656	+335	-39	-221	-125
00000180	+624	+604	+584	+556	+528	+108	+456	+956
00000188	+1328	+959	+1102	+1429	+1756	+2185	+1974	+2139
00000190	+768	-171	+1706	+1839	+1844	+1871	+1898	+1813
00000198	+1472	+1170	+996	+798	+472	-24	-136	-200
000001A0	+672	+668	+665	+525	+450	+338	+483	+468
000001A8	+261	+256	+188	+72	+148	+244	+1620	+2292
000001B0	+212	+144	+2125	+1989	+1918	+1900	+1883	+1678
000001B8	+1729	+1913	+1713	+1033	+226	-128	-162	-162
000001C0	+720	+669	+618	+623	+756	+697	+383	+108
000001C8	+602	+514	+811	+955	+460	+159	-14	+525
000001D0	+168	+588	+2288	+2012	+1992	+1930	+1869	+1991
000001D8	+1858	+1568	+1407	+1589	+1644	+600	-188	-124
000001E0	+736	+689	+643	+792	-338	-824	-605	-79
000001E8	+831	+920	+1265	+1606	+2076	+1930	+504	+250
000001F0	+60	+1207	+2291	+2046	+1930	+1968	+2006	+1776
000001F8	+1547	+1311	+1076	+653	+1062	+148	-126	-126
00000200	+752	+710	+668	+642	-1048	-425	-186	+437
00000208	+1060	+1262	+1592	+1810	+1900	+1973	+2430	+359
00000210	+336	+35	+374	+1761	+2124	+2070	+2016	+1626
00000218	+1492	+1119	+618	+357	-160	-112	-64	-128
00000220	+794	+737	+809	+16	-712	-223	+74	+679
00000228	+1220	+1430	+1705	+1828	+1887	+2008	+2065	+190
00000230	+491	+751	-77	+7	+155	+707	+875	+791
00000238	+387	+76	-106	-249	-8	-6	-68	-132
00000240	+836	+765	+950	-609	-376	-85	+206	+793
00000248	+1252	+1535	+1819	+1846	+1874	+1787	+1188	+21

00000250	+1158	+2363	+1776	+365	+106	-208	-266	-236
00000258	-78	+57	+577	+1256	-112	-28	-72	-136
00000260	+790	+792	+795	-710	-360	-83	+130	+611
00000268	+1156	+1464	+1644	+1636	+1693	+1846	+591	+128
00000270	+1777	+2055	+2013	+2223	+1985	+1757	+1721	+1553
00000278	+1769	+1818	+1612	+990	-208	-106	-68	-132
00000280	+872	+820	+512	-876	-344	-17	+182	+493
00000288	+1060	+1329	+1342	+1363	+1512	+1585	+378	+299
00000290	+2140	+2003	+1994	+1969	+1944	+1866	+1916	+1998
00000298	+1696	+1596	+1624	+340	-48	-56	-64	-128
000002A0	+866	+1064	-400	-609	-243	+35	+249	+359
000002A8	+470	+800	+1002	+1188	+1247	+1134	+253	+764
000002B0	+2172	+2031	+1954	+1929	+1904	+1803	+1767	+1739
000002B8	+1967	+1949	+1932	-108	+26	-18	-62	-94
000002C0	+860	+1117	-673	-599	-270	-104	+61	+226
000002C8	+136	+271	+407	+822	+854	+619	+129	+1614
000002D0	+1948	+1931	+1914	+1889	+1864	+1805	+1747	+1672
000002D8	+1470	+1343	+1089	-173	-28	-44	-60	-60
000002E0	+846	+754	-1001	-625	-697	-372	-431	-455
000002E8	-158	-129	+91	+52	+269	+508	+300	+1816
000002F0	+1860	+1871	+1818	+1805	+1792	+1731	+1670	+1593
000002F8	+1389	+1269	+509	-42	+46	-10	-66	-66
00000300	+1216	-441	-1330	-1035	+156	+384	+868	+656
00000308	+316	-338	-608	-334	-188	+462	+472	+2018
00000310	+1772	+1811	+1722	+1721	+1720	+1657	+1594	+1515
00000318	+1308	+1259	+58	+89	-8	-40	-72	-72
00000320	+1092	+270	+793	+1096	+823	+686	+678	+690
00000328	+638	+739	+520	-338	-365	+568	+1117	+1630
00000330	+1696	+1508	+1704	+1632	+1625	+1560	+1496	+1391
00000338	+1159	+952	-23	+54	+3	-29	-61	-61
00000340	+840	+854	+741	+731	+722	+669	+617	+596
00000348	+576	+536	+497	+617	+482	+290	+995	+1243
00000350	+1364	+1461	+1431	+1416	+1530	+1464	+1398	+1268
00000358	+1010	+645	-104	+19	+14	-18	-50	-50
00000360	+812	+838	+800	+750	+701	+660	+619	+594
00000368	+570	+533	+497	+517	+409	+476	+480	+736
00000370	+1056	+1022	+1245	+1208	+1235	+1299	+1044	+1024
00000378	+1069	+134	+31	+52	+9	-19	-47	-79
00000380	+912	+822	+732	+706	+680	+651	+622	+593
00000388	+564	+531	+498	+481	+464	+407	+350	+549
00000390	+1004	+584	+804	+872	+940	+1071	+562	+717
00000398	+104	+71	+38	+21	+4	-20	-44	-108
000003A0	+776	+752	+728	+692	+656	+633	+610	+587
000003A8	+564	+527	+490	+469	+448	+405	+362	+251
000003B0	+268	+308	+156	+636	+668	+161	+102	+35
000003B8	+96	+71	+46	+25	+4	-24	-52	-84
000003C0	+768	+746	+724	+678	+632	+615	+598	+581
000003C8	+564	+523	+482	+457	+432	+403	+374	+337
000003D0	+300	+288	+276	+400	+652	+147	+154	+121
000003D8	+88	+71	+54	+29	+4	-28	-60	-60
000003E0	+768	+746	+724	+678	+632	+615	+598	+581
000003E8	+564	+523	+482	+457	+432	+403	+374	+337
000003F0	+300	+288	+276	+144	+140	+147	+154	+121
000003F8	+88	+71	+54	+29	+4	-28	-60	-60
00000400	+0	+64	+0	+0	+0	+0	+0	+0
00000408	+0	+0	+0	+0	+0	+0	+0	+0

4.2.4.3.3 Level-1 Sub-bands

The following are the dumps of the four level-1 dequantized sub-bands (LL1, LH1, HL1, and HH1). LL1 is reconstructed from level-2 sub-bands. LH1, HL1, and HH1 are generated by dequantizing the corresponding decoded sub-bands, as shown in sections 4.2.4.2 and 4.2.4.2.1.

4.2.4.3.3.1 LL1

The LL1 sub-band is the same as that shown in section 4.2.4.3.2.7.

4.2.4.3.3.2 HL1

The following is a dump of the HL1 sub-band, as shown in the figure illustrating three-level DWT decomposition in section 3.1.8.1.4.

The sample data for 11.5 fixed-point integers (RDP 7.1/8.0) is:

00000000	+0	+128	+0	+0	+0	+0	+0	+0
00000008	+0	+0	+0	+0	+0	+0	+0	+0
00000010	+0	+0	+0	+0	+0	+0	+0	+0
00000018	+0	+0	+0	+0	+0	+0	+0	+0
00000020	+0	+0	+0	+0	+0	+0	+0	+0
00000028	+0	+0	+0	+0	+0	+0	+0	+0
00000030	+0	+0	+0	+0	+0	+0	+0	+0
00000038	+0	+0	+0	+0	+0	+0	+0	+0
00000040	+0	+0	+0	+0	+0	+0	+0	+0
00000048	+0	+0	+0	+0	+0	+0	+0	+0
00000050	+0	+0	+0	+0	+0	+0	+0	+0
00000058	+0	+0	+0	+0	+0	+0	+0	+0
00000060	+128	+0	+256	+0	+0	+0	+0	-128
00000068	+0	+0	+0	+0	+0	+0	+0	+0
00000070	+0	+0	+0	+0	+0	+0	+0	+0
00000078	+0	+0	+0	+128	+0	+0	+0	+0
00000080	+0	+0	+128	+0	+0	+0	+256	+0
00000088	+0	+0	+0	+0	+0	+0	+0	+0
00000090	+0	+0	+0	+0	+0	+0	+0	+0
00000098	+0	+0	+0	+0	+0	+0	+0	+0
000000A0	+0	+0	+0	+0	+0	+0	+0	+0
000000A8	+0	+128	+0	+0	+0	+0	+0	+0
000000B0	+0	+0	-128	+0	+0	+0	+0	+0
000000B8	+0	+0	+0	+0	-128	+128	+0	+0
000000C0	+0	+0	+0	+0	+0	+0	-384	+0
000000C8	+0	+0	+128	+0	+0	+0	+0	+0
000000D0	+0	+256	+0	+0	+0	+0	+0	+0
000000D8	+0	+128	+0	-256	+512	-640	-128	+0
000000E0	+0	+0	+0	+0	+0	-128	-384	+0
000000E8	+0	+0	+0	+0	+0	+0	+0	+0
000000F0	+0	-384	+0	+384	+0	+0	+0	+0
000000F8	+0	+0	-128	+512	+512	-640	-128	+0
00000100	+0	+0	+0	+0	+0	-256	+640	+0
00000108	+0	+0	+0	+0	+0	+256	+128	+0
00000110	+256	-640	-512	+128	+0	+0	+0	+0
00000118	+0	+0	+128	+384	-128	+640	+0	-128
00000120	+0	+0	+0	+0	+0	-256	-256	-384
00000128	+0	+0	+0	+0	+0	+384	+0	+0
00000130	+896	+0	-512	+0	+0	+0	+0	+0
00000138	+0	+0	+0	-128	+0	-128	+256	-128
00000140	+0	+0	+0	+0	+0	-384	+128	+640
00000148	+0	+0	+0	+0	+0	+0	-128	+0
00000150	+0	+128	+896	+0	+0	+0	+0	+0
00000158	+0	+0	+0	+0	+0	-128	+0	+0
00000160	+0	+0	+0	+0	+256	+0	+0	+0
00000168	-256	+0	+0	+0	+0	+0	+128	+0
00000170	-1152	-384	+640	+0	+0	+0	+0	+0
00000178	+0	+0	+0	+0	+0	-128	+0	+0
00000180	+0	+0	+0	+0	+0	+0	-128	-128
00000188	-128	+0	+0	+0	+0	+0	+0	+768
00000190	-256	-1024	-128	+0	+0	+0	+0	+0
00000198	+0	+0	+0	+0	+0	-128	+0	+0
000001A0	+0	+0	+0	+0	-384	+0	+0	+0
000001A8	+0	+0	+0	-128	+0	-128	+0	+640
000001B0	+256	+384	+0	+0	+0	+0	+0	+0
000001B8	+0	+0	+128	+0	+256	+0	+0	+0
000001C0	+0	+0	+0	-128	+128	+0	+0	-128
000001C8	+256	+0	+0	+128	+0	+0	-128	+0
000001D0	-128	+896	+0	+0	+0	+0	+0	+0
000001D8	+0	+0	+0	+0	-384	-256	+0	+0
000001E0	+0	+0	+0	+384	-128	+0	-128	+0

000001E8	+128	+0	+0	+0	+128	+256	-128	+0
000001F0	-640	+128	+0	+0	+0	+0	+0	+0
000001F8	+0	+0	+0	-384	-512	+0	+0	+0
00000200	+0	+0	-128	-768	+128	+0	-128	+0
00000208	+0	+0	+0	+0	+0	+0	+768	+0
00000210	-128	+0	+128	+0	+0	+128	-128	+0
00000218	+0	+0	+0	+0	+0	+0	+0	+0
00000220	+0	+0	+384	-640	+0	+0	+0	+0
00000228	+0	+0	+0	+0	+0	-128	-128	+128
00000230	+1280	+0	+0	+0	-128	+128	+0	+0
00000238	+0	+0	-128	+128	+0	+0	+0	+0
00000240	+0	+0	+896	+0	+0	+0	+0	+0
00000248	+0	+0	+0	+0	+0	+128	-640	-640
00000250	+384	+0	+0	+0	+0	+0	+0	+0
00000258	+0	-128	+0	-128	+0	+0	+0	+0
00000260	+0	-128	-256	+0	+0	+0	-128	+0
00000268	+0	+0	+0	+0	+0	+384	-128	-896
00000270	+0	+0	+0	+0	+0	+0	+0	+0
00000278	+0	+0	+128	-768	+0	+0	+0	+0
00000280	+0	+0	-1024	+0	+0	+0	+0	+0
00000288	+0	+0	+0	+0	+0	+384	+256	+512
00000290	+0	+0	+0	+0	+0	-128	+0	+0
00000298	+0	+0	+768	-128	+0	+0	+0	+0
000002A0	-128	+896	-128	+0	+0	+0	-128	-128
000002A8	+0	+0	+0	+0	+0	-384	-128	+768
000002B0	+0	+0	+0	+0	+0	+0	+0	+0
000002B8	+0	+0	+384	+128	+0	+0	+0	+0
000002C0	+0	+512	+128	+256	-256	-256	+0	-128
000002C8	+0	+0	+0	+0	+128	-128	-896	+128
000002D0	+0	+0	+0	+0	+0	+0	+0	+0
000002D8	+0	+0	-768	+0	+0	+0	+0	+0
000002E0	-128	-1280	+384	+128	+256	+0	-256	+128
000002E8	+128	+0	+0	+0	+0	+0	-128	+0
000002F0	+0	+0	-128	+0	+0	+0	+0	+0
000002F8	+0	+384	-256	+0	+0	+0	+0	+0
00000300	+768	-1024	-256	+0	-256	+128	+0	+0
00000308	-128	-128	-128	+128	+128	+128	+768	+0
00000310	+0	+0	+0	+0	+0	+0	+0	+0
00000318	+0	+512	+128	+0	+0	+0	+0	+0
00000320	+384	+256	+0	+128	+0	+0	+128	+128
00000328	+0	+0	+128	-256	+640	-384	+256	+0
00000330	+0	+0	+0	+128	+0	+0	+0	+0
00000338	+0	-256	+0	+0	+0	+0	+0	+0
00000340	+0	+0	+0	+0	+0	+0	+0	+0
00000348	+0	+0	-128	+0	+0	-384	+0	+128
00000350	+0	+0	+128	+128	+0	+0	+0	+0
00000358	+0	-512	+0	+0	+0	+0	+0	+0
00000360	+0	+0	+0	+0	+0	+0	+0	+0
00000368	+0	+0	+0	+0	+0	+0	-128	+128
00000370	-128	-128	+0	+0	+128	+0	+0	+0
00000378	+384	+0	+0	+0	+0	+0	+0	+0
00000380	+0	+0	+0	+0	+0	+0	+0	+0
00000388	+0	+0	+0	+0	+0	+0	-128	+0
00000390	+0	+0	+128	+128	+128	-256	+0	+128
00000398	+0	+0	+0	+0	+0	+0	+0	+0
000003A0	+0	+0	+0	+0	+0	+0	+0	+0
000003A8	+0	+0	+0	+0	+0	+0	+0	+0
000003B0	-128	+0	-256	+128	+128	+0	+0	+0
000003B8	+0	+0	+0	+0	+0	+0	+0	+0
000003C0	+0	+0	+0	+0	+0	+0	+0	+0
000003C8	+0	+0	+0	+0	+0	+0	+0	+0
000003D0	+0	+0	+0	+384	-128	+0	+0	+0
000003D8	+0	+0	+0	+0	+0	+0	+0	+0
000003E0	+0	+0	+0	+0	+0	+0	+0	+0
000003E8	+0	+0	+0	+0	+0	+0	+0	+0
000003F0	+0	+0	+0	-128	+0	+0	+0	+0
000003F8	+0	+0	+0	+0	+0	+0	+0	+0

The sample data for 12.4 fixed-point integers (RDP 8.1) is:

00000000	+0	+64	+0	+0	+0	+0	+0	+0
00000008	+0	+0	+0	+0	+0	+0	+0	+0
00000010	+0	+0	+0	+0	+0	+0	+0	+0
00000018	+0	+0	+0	+0	+0	+0	+0	+0
00000020	+0	+0	+0	+0	+0	+0	+0	+0
00000028	+0	+0	+0	+0	+0	+0	+0	+0
00000030	+0	+0	+0	+0	+0	+0	+0	+0
00000038	+0	+0	+0	+0	+0	+0	+0	+0
00000040	+0	+0	+0	+0	+0	+0	+0	+0
00000048	+0	+0	+0	+0	+0	+0	+0	+0
00000050	+0	+0	+0	+0	+0	+0	+0	+0
00000058	+0	+0	+0	+0	+0	+0	+0	+0
00000060	+64	+0	+128	+0	+0	+0	+0	-64
00000068	+0	+0	+0	+0	+0	+0	+0	+0
00000070	+0	+0	+0	+0	+0	+0	+0	+0
00000078	+0	+0	+0	+64	+0	+0	+0	+0
00000080	+0	+0	+64	+0	+0	+0	+128	+0
00000088	+0	+0	+0	+0	+0	+0	+0	+0
00000090	+0	+0	+0	+0	+0	+0	+0	+0
00000098	+0	+0	+0	+0	+0	+0	+0	+0
000000A0	+0	+0	+0	+0	+0	+0	+0	+0
000000A8	+0	+64	+0	+0	+0	+0	+0	+0
000000B0	+0	+0	-64	+0	+0	+0	+0	+0
000000B8	+0	+0	+0	+0	-64	+64	+0	+0
000000C0	+0	+0	+0	+0	+0	+0	-192	+0
000000C8	+0	+0	+64	+0	+0	+0	+0	+0
000000D0	+0	+128	+0	+0	+0	+0	+0	+0
000000D8	+0	+64	+0	-128	+256	-320	-64	+0
000000E0	+0	+0	+0	+0	+0	-64	-192	+0
000000E8	+0	+0	+0	+0	+0	+0	+0	+0
000000F0	+0	-192	+0	+192	+0	+0	+0	+0
000000F8	+0	+0	-64	+256	+256	-320	-64	+0
00000100	+0	+0	+0	+0	+0	-128	+320	+0
00000108	+0	+0	+0	+0	+0	+128	+64	+0
00000110	+128	-320	-256	+64	+0	+0	+0	+0
00000118	+0	+0	+64	+192	-64	+320	+0	-64
00000120	+0	+0	+0	+0	+0	-128	-128	-192
00000128	+0	+0	+0	+0	+0	+192	+0	+0
00000130	+448	+0	-256	+0	+0	+0	+0	+0
00000138	+0	+0	+0	-64	+0	-64	+128	-64
00000140	+0	+0	+0	+0	+0	-192	+64	+320
00000148	+0	+0	+0	+0	+0	+0	-64	+0
00000150	+0	+64	+448	+0	+0	+0	+0	+0
00000158	+0	+0	+0	+0	+0	-64	+0	+0
00000160	+0	+0	+0	+0	+128	+0	+0	+0
00000168	-128	+0	+0	+0	+0	+0	+64	+0
00000170	-576	-192	+320	+0	+0	+0	+0	+0
00000178	+0	+0	+0	+0	+0	-64	+0	+0
00000180	+0	+0	+0	+0	+0	+0	-64	-64
00000188	-64	+0	+0	+0	+0	+0	+0	+384
00000190	-128	-512	-64	+0	+0	+0	+0	+0
00000198	+0	+0	+0	+0	+0	-64	+0	+0
000001A0	+0	+0	+0	+0	-192	+0	+0	+0
000001A8	+0	+0	+0	-64	+0	-64	+0	+320
000001B0	+128	+192	+0	+0	+0	+0	+0	+0
000001B8	+0	+0	+64	+0	+128	+0	+0	+0
000001C0	+0	+0	+0	-64	+64	+0	+0	-64
000001C8	+128	+0	+0	+64	+0	+0	-64	+0
000001D0	-64	+448	+0	+0	+0	+0	+0	+0
000001D8	+0	+0	+0	+0	-192	-128	+0	+0
000001E0	+0	+0	+0	+192	-64	+0	-64	+0
000001E8	+64	+0	+0	+0	+64	+128	-64	+0
000001F0	-320	+64	+0	+0	+0	+0	+0	+0
000001F8	+0	+0	+0	-192	-256	+0	+0	+0
00000200	+0	+0	-64	-384	+64	+0	-64	+0
00000208	+0	+0	+0	+0	+0	+0	+384	+0
00000210	-64	+0	+64	+0	+0	+64	-64	+0

00000218	+0	+0	+0	+0	+0	+0	+0	+0
00000220	+0	+0	+192	-320	+0	+0	+0	+0
00000228	+0	+0	+0	+0	+0	-64	-64	+64
00000230	+640	+0	+0	+0	-64	+64	+0	+0
00000238	+0	+0	-64	+64	+0	+0	+0	+0
00000240	+0	+0	+448	+0	+0	+0	+0	+0
00000248	+0	+0	+0	+0	+0	+64	-320	-320
00000250	+192	+0	+0	+0	+0	+0	+0	+0
00000258	+0	-64	+0	-64	+0	+0	+0	+0
00000260	+0	-64	-128	+0	+0	+0	-64	+0
00000268	+0	+0	+0	+0	+0	+192	-64	-448
00000270	+0	+0	+0	+0	+0	+0	+0	+0
00000278	+0	+0	+64	-384	+0	+0	+0	+0
00000280	+0	+0	-512	+0	+0	+0	+0	+0
00000288	+0	+0	+0	+0	+0	+192	+128	+256
00000290	+0	+0	+0	+0	+0	-64	+0	+0
00000298	+0	+0	+384	-64	+0	+0	+0	+0
000002A0	-64	+448	-64	+0	+0	+0	-64	-64
000002A8	+0	+0	+0	+0	+0	-192	-64	+384
000002B0	+0	+0	+0	+0	+0	+0	+0	+0
000002B8	+0	+0	+192	+64	+0	+0	+0	+0
000002C0	+0	+256	+64	+128	-128	-128	+0	-64
000002C8	+0	+0	+0	+0	+64	-64	-448	+64
000002D0	+0	+0	+0	+0	+0	+0	+0	+0
000002D8	+0	+0	-384	+0	+0	+0	+0	+0
000002E0	-64	-640	+192	+64	+128	+0	-128	+64
000002E8	+64	+0	+0	+0	+0	+0	-64	+0
000002F0	+0	+0	-64	+0	+0	+0	+0	+0
000002F8	+0	+192	-128	+0	+0	+0	+0	+0
00000300	+384	-512	-128	+0	-128	+64	+0	+0
00000308	-64	-64	-64	+64	+64	+64	+384	+0
00000310	+0	+0	+0	+0	+0	+0	+0	+0
00000318	+0	+256	+64	+0	+0	+0	+0	+0
00000320	+192	+128	+0	+64	+0	+0	+64	+64
00000328	+0	+0	+64	-128	+320	-192	+128	+0
00000330	+0	+0	+0	+64	+0	+0	+0	+0
00000338	+0	-128	+0	+0	+0	+0	+0	+0
00000340	+0	+0	+0	+0	+0	+0	+0	+0
00000348	+0	+0	-64	+0	+0	-192	+0	+64
00000350	+0	+0	+64	+64	+0	+0	+0	+0
00000358	+0	-256	+0	+0	+0	+0	+0	+0
00000360	+0	+0	+0	+0	+0	+0	+0	+0
00000368	+0	+0	+0	+0	+0	+0	-64	+64
00000370	-64	-64	+0	+0	+64	+0	+0	+0
00000378	+192	+0	+0	+0	+0	+0	+0	+0
00000380	+0	+0	+0	+0	+0	+0	+0	+0
00000388	+0	+0	+0	+0	+0	+0	-64	+0
00000390	+0	+0	+64	+64	+64	-128	+0	+64
00000398	+0	+0	+0	+0	+0	+0	+0	+0
000003A0	+0	+0	+0	+0	+0	+0	+0	+0
000003A8	+0	+0	+0	+0	+0	+0	+0	+0
000003B0	-64	+0	-128	+64	+64	+0	+0	+0
000003B8	+0	+0	+0	+0	+0	+0	+0	+0
000003C0	+0	+0	+0	+0	+0	+0	+0	+0
000003C8	+0	+0	+0	+0	+0	+0	+0	+0
000003D0	+0	+0	+0	+192	-64	+0	+0	+0
000003D8	+0	+0	+0	+0	+0	+0	+0	+0
000003E0	+0	+0	+0	+0	+0	+0	+0	+0
000003E8	+0	+0	+0	+0	+0	+0	+0	+0
000003F0	+0	+0	+0	-64	+0	+0	+0	+0
000003F8	+0	+0	+0	+0	+0	+0	+0	+0

4.2.4.3.3 LH1

The following is a dump of the LH1 sub-band, as shown in the figure illustrating three-level DWT decomposition in section 3.1.8.1.4.

The sample data for 11.5 fixed-point integers (RDP 7.1/8.0) is:

00000000	+0	+0	+0	+0	+0	+0	+0	+0
00000008	+0	+0	+0	+0	+0	+0	+0	+0
00000010	+0	+0	+0	+0	+0	+0	+0	+0
00000018	+0	+0	+0	+0	+0	+0	+0	+0
00000020	+0	+0	+0	+0	+0	+0	+0	+0
00000028	+0	+0	+0	+0	+0	+0	+0	+0
00000030	+0	+0	+0	+0	+0	+0	+0	+0
00000038	+0	+0	+0	+0	+0	+0	+0	+0
00000040	+0	+0	+0	+0	+0	+0	+0	+0
00000048	+128	+0	-128	-128	+0	+0	-128	-128
00000050	+128	+0	+0	+0	+0	+0	+0	+0
00000058	+0	+0	+0	+0	+0	+0	+0	+0
00000060	-128	-128	-128	+0	+0	+0	+0	-128
00000068	+0	+0	+0	+0	+0	+0	+0	+0
00000070	+0	-128	+0	+0	+0	+0	+0	+0
00000078	+0	+0	+0	+0	+0	+0	+0	+0
00000080	-128	-128	-128	+0	+0	+0	+0	+0
00000088	+0	+0	+0	+0	+0	+0	+0	+0
00000090	+0	+0	+0	+0	+0	+0	+0	+0
00000098	+0	+0	+0	+0	+0	+0	+0	+0
000000A0	+0	+0	+0	+0	+0	+0	+0	+0
000000A8	+0	+0	+0	+0	+0	+0	+0	+0
000000B0	+0	+0	+0	+0	-128	+128	+0	+0
000000B8	+0	+0	+0	+0	-256	-1024	+256	+0
000000C0	+0	+0	+0	+0	+0	+0	-128	+0
000000C8	+0	+0	+0	+0	+0	+0	+0	+0
000000D0	+0	+0	+0	+0	+0	+0	-128	+0
000000D8	+0	+128	+0	-256	+512	+512	-128	+0
000000E0	+0	+0	+0	+0	+0	-128	+384	-128
000000E8	+0	+0	+0	+0	+0	+0	+128	+0
000000F0	+0	+128	+0	+0	+0	+0	+0	+0
000000F8	+0	+0	-128	+384	+384	-896	-128	+0
00000100	+0	+0	+0	+0	+0	+0	+0	+128
00000108	+0	+0	+0	+0	+0	+0	+0	+0
00000110	+0	+0	-128	+128	+0	+0	+0	+0
00000118	+0	+0	+0	+128	+0	+0	+768	+384
00000120	+0	+0	+0	+0	+0	+0	+0	+0
00000128	+0	+0	+0	+128	+0	+0	+0	+0
00000130	+128	+0	+0	+0	+0	+0	+0	+0
00000138	+0	+0	+0	+0	+0	+0	-1024	+0
00000140	+0	+0	+0	+0	+0	+0	+0	+0
00000148	+0	+0	+0	+128	-256	-256	+256	-128
00000150	+0	+0	-128	+0	+0	+0	+0	+0
00000158	+0	+0	+0	+0	+0	+0	+0	+0
00000160	+0	+0	+0	+0	+0	-128	+0	+0
00000168	+128	+128	+384	+128	+0	+0	+0	+0
00000170	+0	+0	+0	+0	+0	+0	+0	+128
00000178	+0	+0	+0	+0	+0	+0	+0	+0
00000180	+0	+0	+0	+0	+0	-128	+0	-128
00000188	-640	-384	-512	-768	-768	+896	+128	+128
00000190	-128	+0	+0	+0	+0	+0	+0	+0
00000198	-128	-256	-384	+0	+128	+0	+0	+0
000001A0	+0	+0	+0	+0	+0	+128	+0	+256
000001A8	-128	+0	-256	-384	+128	+128	-1024	+768
000001B0	+0	-128	+128	+0	+0	+0	+0	+128
000001B8	+128	+0	+0	+768	-384	-128	+0	+0
000001C0	+0	+0	+0	-128	+640	+256	-768	-256
000001C8	+0	+0	+0	+256	+896	-768	-128	+0
000001D0	+0	+128	+0	+0	+0	+0	+0	+0
000001D8	+0	+0	-128	-128	+128	+768	+0	+0
000001E0	+0	+0	+0	+0	-256	+128	+0	+0
000001E8	+0	+0	+0	+0	+0	-128	+768	-128
000001F0	+128	-768	+896	+0	+0	+0	+0	+0
000001F8	+0	+0	+0	+128	-128	-128	+0	+0
00000200	+0	+0	+0	+128	+0	+0	+0	+0
00000208	+0	+0	+0	+0	+0	+0	+0	+0
00000210	-128	-256	+0	-1024	+768	+768	+512	+384
00000218	+384	+512	-128	-256	+0	+0	+0	+0

00000220	+0	+0	+0	+0	+0	+0	+0	+0
00000228	+0	+0	+0	+0	+0	+0	+256	-128
00000230	-128	+896	-1024	+0	+128	-256	-512	-384
00000238	-128	+128	-384	-512	+128	+0	+0	+0
00000240	+0	+0	+0	+0	+0	+0	+0	+0
00000248	+0	+0	+128	+0	+128	-384	-640	+0
00000250	+128	+0	+0	+1024	-128	-896	-1152	-896
00000258	-256	+768	+384	+0	+0	+0	+0	+0
00000260	+0	+0	+128	+0	+0	+0	-128	-128
00000268	+0	+0	+0	+0	+0	+128	-128	+0
00000270	+0	+0	+0	+0	+0	+0	+0	+0
00000278	+0	+0	+0	+0	+0	+0	+0	+0
00000280	+0	+0	+0	+0	+0	+0	+128	+0
00000288	+0	+0	+0	+0	+0	+0	+0	-128
00000290	+128	+0	+0	+0	+0	+0	-128	+128
00000298	+0	+0	+128	-128	+0	+0	+0	+0
000002A0	-128	+128	-128	+128	+128	+0	+0	+0
000002A8	+0	+0	+0	+0	+0	+0	+0	+0
000002B0	+0	+0	+0	+0	+0	+0	+0	+0
000002B8	-128	+128	-128	+0	+0	+0	+0	+0
000002C0	+0	+128	+128	+384	+384	+0	+128	+128
000002C8	-128	+128	+0	+0	+0	+0	+0	+0
000002D0	+0	+0	+0	+0	+0	+0	+0	+0
000002D8	+0	+0	+128	+0	+0	+0	+128	+0
000002E0	+0	+0	+256	+128	-512	-640	-1024	-768
000002E8	-512	+128	+0	+0	-128	+0	+0	+0
000002F0	+0	+0	+0	+0	+0	+0	+0	+0
000002F8	+0	+0	+0	+128	+0	+0	+0	+0
00000300	+384	-1152	-640	+1280	+256	+256	+0	-128
00000308	+256	+768	-512	-128	+0	+0	+0	+0
00000310	+0	+0	+0	+0	+0	+0	+0	+0
00000318	+0	+0	+0	+0	+0	+0	+0	+0
00000320	-128	+256	-128	-128	+128	+0	+0	+0
00000328	+0	+0	-128	+512	-256	-128	+128	-128
00000330	+128	-128	+0	+0	+0	+0	+0	+0
00000338	+0	+128	+0	+0	+0	+0	+0	+0
00000340	+0	+0	+0	+0	+0	+0	+0	+0
00000348	+0	+0	+0	+0	+0	+0	+0	+128
00000350	-128	+128	+0	+0	+0	+0	+0	+0
00000358	+0	+0	+0	+0	+0	+0	+0	+0
00000360	+0	+128	+0	+0	+0	+0	+0	+0
00000368	+0	+0	+0	+0	+0	+0	-128	-128
00000370	+0	-128	+128	+128	+0	+128	+0	-128
00000378	+384	-128	+0	+0	+0	+0	+0	+0
00000380	+0	+0	+0	+0	+0	+0	+0	+0
00000388	+0	+0	+0	+0	+0	+0	+0	-128
00000390	-128	-128	+128	+128	+128	+0	-256	-384
00000398	+0	+0	+0	+0	+0	+0	+0	+0
000003A0	+0	+0	+0	+0	+0	+0	+0	+0
000003A8	+0	+0	+0	+0	+0	+0	+0	+0
000003B0	+0	+0	-128	+512	+256	+128	+0	+0
000003B8	+0	+0	+0	+0	+0	+0	+0	+0
000003C0	+0	+0	+0	+0	+0	+0	+0	+0
000003C8	+0	+0	+0	+0	+0	+0	+0	+0
000003D0	+0	+0	+0	+0	-256	+0	+0	+0
000003D8	+0	+0	+0	+0	+0	+0	+0	+0
000003E0	+0	+0	+0	+0	+0	+0	+0	+0
000003E8	+0	+0	+0	+0	+0	+0	+0	+0
000003F0	+0	+0	+0	+0	+0	+0	+0	+0
000003F8	+0	+0	+0	+0	+0	+0	+0	+0
00000400	+0	+0	+0	+0	+0	+0	+0	+0
00000408	+0	+0	+0	+0	+0	+0	+0	+0

The sample data for 12.4 fixed-point integers (RDP 8.1) is:

00000000	+0	+0	+0	+0	+0	+0	+0	+0
00000008	+0	+0	+0	+0	+0	+0	+0	+0

00000010	+0	+0	+0	+0	+0	+0	+0	+0
00000018	+0	+0	+0	+0	+0	+0	+0	+0
00000020	+0	+0	+0	+0	+0	+0	+0	+0
00000028	+0	+0	+0	+0	+0	+0	+0	+0
00000030	+0	+0	+0	+0	+0	+0	+0	+0
00000038	+0	+0	+0	+0	+0	+0	+0	+0
00000040	+0	+0	+0	+0	+0	+0	+0	+0
00000048	+64	+0	-64	-64	+0	+0	-64	-64
00000050	+64	+0	+0	+0	+0	+0	+0	+0
00000058	+0	+0	+0	+0	+0	+0	+0	+0
00000060	-64	-64	-64	+0	+0	+0	+0	-64
00000068	+0	+0	+0	+0	+0	+0	+0	+0
00000070	+0	-64	+0	+0	+0	+0	+0	+0
00000078	+0	+0	+0	+0	+0	+0	+0	+0
00000080	-64	-64	-64	+0	+0	+0	+0	+0
00000088	+0	+0	+0	+0	+0	+0	+0	+0
00000090	+0	+0	+0	+0	+0	+0	+0	+0
00000098	+0	+0	+0	+0	+0	+0	+0	+0
000000A0	+0	+0	+0	+0	+0	+0	+0	+0
000000A8	+0	+0	+0	+0	+0	+0	+0	+0
000000B0	+0	+0	+0	+0	-64	+64	+0	+0
000000B8	+0	+0	+0	+0	-128	-512	+128	+0
000000C0	+0	+0	+0	+0	+0	+0	-64	+0
000000C8	+0	+0	+0	+0	+0	+0	+0	+0
000000D0	+0	+0	+0	+0	+0	+0	-64	+0
000000D8	+0	+64	+0	-128	+256	+256	-64	+0
000000E0	+0	+0	+0	+0	+0	-64	+192	-64
000000E8	+0	+0	+0	+0	+0	+0	+64	+0
000000F0	+0	+64	+0	+0	+0	+0	+0	+0
000000F8	+0	+0	-64	+192	+192	-448	-64	+0
00000100	+0	+0	+0	+0	+0	+0	+0	+64
00000108	+0	+0	+0	+0	+0	+0	+0	+0
00000110	+0	+0	-64	+64	+0	+0	+0	+0
00000118	+0	+0	+0	+64	+0	+0	+384	+192
00000120	+0	+0	+0	+0	+0	+0	+0	+0
00000128	+0	+0	+0	+64	+0	+0	+0	+0
00000130	+64	+0	+0	+0	+0	+0	+0	+0
00000138	+0	+0	+0	+0	+0	+0	-512	+0
00000140	+0	+0	+0	+0	+0	+0	+0	+0
00000148	+0	+0	+0	+64	-128	-128	+128	-64
00000150	+0	+0	-64	+0	+0	+0	+0	+0
00000158	+0	+0	+0	+0	+0	+0	+0	+0
00000160	+0	+0	+0	+0	+0	-64	+0	+0
00000168	+64	+64	+192	+64	+0	+0	+0	+0
00000170	+0	+0	+0	+0	+0	+0	+0	+64
00000178	+0	+0	+0	+0	+0	+0	+0	+0
00000180	+0	+0	+0	+0	+0	-64	+0	-64
00000188	-320	-192	-256	-384	-384	+448	+64	+64
00000190	-64	+0	+0	+0	+0	+0	+0	+0
00000198	-64	-128	-192	+0	+64	+0	+0	+0
000001A0	+0	+0	+0	+0	+0	+64	+0	+128
000001A8	-64	+0	-128	-192	+64	+64	-512	+384
000001B0	+0	-64	+64	+0	+0	+0	+0	+64
000001B8	+64	+0	+0	+384	-192	-64	+0	+0
000001C0	+0	+0	+0	-64	+320	+128	-384	-128
000001C8	+0	+0	+0	+128	+448	-384	-64	+0
000001D0	+0	+64	+0	+0	+0	+0	+0	+0
000001D8	+0	+0	-64	-64	+64	+384	+0	+0
000001E0	+0	+0	+0	+0	-128	+64	+0	+0
000001E8	+0	+0	+0	+0	+0	-64	+384	-64
000001F0	+64	-384	+448	+0	+0	+0	+0	+0
000001F8	+0	+0	+0	+64	-64	-64	+0	+0
00000200	+0	+0	+0	+64	+0	+0	+0	+0
00000208	+0	+0	+0	+0	+0	+0	+0	+0
00000210	-64	-128	+0	-512	+384	+384	+256	+192
00000218	+192	+256	-64	-128	+0	+0	+0	+0
00000220	+0	+0	+0	+0	+0	+0	+0	+0
00000228	+0	+0	+0	+0	+0	+0	+128	-64
00000230	-64	+448	-512	+0	+64	-128	-256	-192
00000238	-64	+64	-192	-256	+64	+0	+0	+0

00000240	+0	+0	+0	+0	+0	+0	+0	+0
00000248	+0	+0	+64	+0	+64	-192	-320	+0
00000250	+64	+0	+0	+512	-64	-448	-576	-448
00000258	-128	+384	+192	+0	+0	+0	+0	+0
00000260	+0	+0	+64	+0	+0	+0	-64	-64
00000268	+0	+0	+0	+0	+0	+64	-64	+0
00000270	+0	+0	+0	+0	+0	+0	+0	+0
00000278	+0	+0	+0	+0	+0	+0	+0	+0
00000280	+0	+0	+0	+0	+0	+0	+64	+0
00000288	+0	+0	+0	+0	+0	+0	+0	-64
00000290	+64	+0	+0	+0	+0	+0	-64	+64
00000298	+0	+0	+64	-64	+0	+0	+0	+0
000002A0	-64	+64	-64	+64	+64	+0	+0	+0
000002A8	+0	+0	+0	+0	+0	+0	+0	+0
000002B0	+0	+0	+0	+0	+0	+0	+0	+0
000002B8	-64	+64	-64	+0	+0	+0	+0	+0
000002C0	+0	+64	+64	+192	+192	+0	+64	+64
000002C8	-64	+64	+0	+0	+0	+0	+0	+0
000002D0	+0	+0	+0	+0	+0	+0	+0	+0
000002D8	+0	+0	+64	+0	+0	+0	+64	+0
000002E0	+0	+0	+128	+64	-256	-320	-512	-384
000002E8	-256	+64	+0	+0	-64	+0	+0	+0
000002F0	+0	+0	+0	+0	+0	+0	+0	+0
000002F8	+0	+0	+0	+64	+0	+0	+0	+0
00000300	+192	-576	-320	+640	+128	+128	+0	-64
00000308	+128	+384	-256	-64	+0	+0	+0	+0
00000310	+0	+0	+0	+0	+0	+0	+0	+0
00000318	+0	+0	+0	+0	+0	+0	+0	+0
00000320	-64	+128	-64	-64	+64	+0	+0	+0
00000328	+0	+0	-64	+256	-128	-64	+64	-64
00000330	+64	-64	+0	+0	+0	+0	+0	+0
00000338	+0	+64	+0	+0	+0	+0	+0	+0
00000340	+0	+0	+0	+0	+0	+0	+0	+0
00000348	+0	+0	+0	+0	+0	+0	+0	+64
00000350	-64	+64	+0	+0	+0	+0	+0	+0
00000358	+0	+0	+0	+0	+0	+0	+0	+0
00000360	+0	+64	+0	+0	+0	+0	+0	+0
00000368	+0	+0	+0	+0	+0	+0	-64	-64
00000370	+0	-64	+64	+64	+0	+64	+0	-64
00000378	+192	-64	+0	+0	+0	+0	+0	+0
00000380	+0	+0	+0	+0	+0	+0	+0	+0
00000388	+0	+0	+0	+0	+0	+0	+0	-64
00000390	-64	-64	+64	+64	+64	+0	-128	-192
00000398	+0	+0	+0	+0	+0	+0	+0	+0
000003A0	+0	+0	+0	+0	+0	+0	+0	+0
000003A8	+0	+0	+0	+0	+0	+0	+0	+0
000003B0	+0	+0	-64	+256	+128	+64	+0	+0
000003B8	+0	+0	+0	+0	+0	+0	+0	+0
000003C0	+0	+0	+0	+0	+0	+0	+0	+0
000003C8	+0	+0	+0	+0	+0	+0	+0	+0
000003D0	+0	+0	+0	+0	-128	+0	+0	+0
000003D8	+0	+0	+0	+0	+0	+0	+0	+0
000003E0	+0	+0	+0	+0	+0	+0	+0	+0
000003E8	+0	+0	+0	+0	+0	+0	+0	+0
000003F0	+0	+0	+0	+0	+0	+0	+0	+0
000003F8	+0	+0	+0	+0	+0	+0	+0	+0
00000400	+0	+0	+0	+0	+0	+0	+0	+0
00000408	+0	+0	+0	+0	+0	+0	+0	+0

4.2.4.3.3.4 HH1

The following is a dump of the HL1 sub-band, as shown in the figure illustrating three-level DWT decomposition in section 3.1.8.1.4.

The sample data for 11.5 fixed-point integers (RDP 7.1/8.0) is:

00000000	+0	+0	+0	+0	+0	+0	+0	+0
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00000008	+0	+0	+0	+0	+0	+0	+0	+0
00000010	+0	+0	+0	+0	+0	+0	+0	+0
00000018	+0	+0	+0	+0	+0	+0	+0	+0
00000020	+0	+0	+0	+0	+0	+0	+0	+0
00000028	+0	+0	+0	+0	+0	+0	+0	+0
00000030	+0	+0	+0	+0	+0	+0	+0	+0
00000038	+0	+0	+0	+0	+0	+0	+0	+0
00000040	+0	+0	+0	+0	+0	+0	+0	+0
00000048	+0	+0	+0	+0	+0	+0	+0	+0
00000050	+0	+0	+0	+0	+0	+0	+0	+0
00000058	+0	+0	+0	+0	+0	+0	+0	+0
00000060	+0	+0	+0	+0	+0	+0	+0	+0
00000068	+0	+0	+0	+0	+0	+0	+0	+0
00000070	+0	+0	+0	+0	+0	+0	+0	+0
00000078	+0	+0	+0	+0	+0	+0	+0	+0
00000080	+0	+0	+0	+0	+0	+0	+0	+0
00000088	+0	+0	+0	+0	+0	+0	+0	+0
00000090	+0	+0	+0	+0	+0	+0	+0	+0
00000098	+0	+0	+0	+0	+0	+0	+0	+0
000000A0	+0	+0	+0	+0	+0	+0	+0	+0
000000A8	+0	+0	+0	+0	+0	+0	+0	+0
000000B0	+0	+0	+0	+0	+0	+0	+0	+0
000000B8	+0	+0	+0	+0	-256	+256	+0	+0
000000C0	+0	+0	+0	+0	+0	+0	+0	+0
000000C8	+0	+0	+0	+0	+0	+0	+0	+0
000000D0	+0	+0	+0	+0	+0	+0	+0	+0
000000D8	+0	+0	+0	-512	-256	+256	+0	+0
000000E0	+0	+0	+0	+0	+0	-256	-256	+0
000000E8	+0	+0	+0	+0	+0	+0	+0	+0
000000F0	+0	-256	+0	+0	+0	+0	+0	+0
000000F8	+0	+0	-256	+256	-512	+0	+0	+0
00000100	+0	+0	+0	+0	+0	+0	+0	+0
00000108	+0	+0	+0	+0	+0	+0	+0	+0
00000110	+0	+0	-256	+0	+0	+0	+0	+0
00000118	+0	+0	+0	-256	+0	+0	+256	-256
00000120	+0	+0	+0	+0	+0	-256	+0	+0
00000128	+0	+0	+0	+0	+0	+0	+0	+0
00000130	+0	+0	+0	+0	+0	+0	+0	+0
00000138	+0	+0	+0	+0	+0	+0	+0	+0
00000140	+0	+0	+0	+0	+0	+0	+0	+0
00000148	+0	+0	+0	+0	+0	+0	+0	+0
00000150	+0	+0	+0	+0	+0	+0	+0	+0
00000158	+0	+0	+0	+0	+0	+0	+0	+0
00000160	+0	+0	+0	+0	+0	+0	+0	+0
00000168	+0	+0	+0	+0	+0	+0	+0	+0
00000170	+0	+0	+0	+0	+0	+0	+0	+0
00000178	+0	+0	+0	+0	+0	+0	+0	+0
00000180	+0	+0	+0	+0	+0	+0	+0	+0
00000188	+0	+0	+0	-256	+0	+0	+0	+256
00000190	+0	+0	+0	+0	+0	+0	+0	+0
00000198	+0	+0	+0	+0	+0	+0	+0	+0
000001A0	+0	+0	+0	+0	+256	+0	+0	+0
000001A8	+0	+0	+0	+0	+0	+0	+0	-256
000001B0	+0	+256	+0	+0	+0	+0	+0	+0
000001B8	+0	+0	+0	+0	+256	+0	+0	+0
000001C0	+0	+0	+0	+0	+256	+0	+0	+0
000001C8	+0	+0	+0	+0	+0	-256	+0	+0
000001D0	+0	+0	+0	+0	+0	+0	+0	+0
000001D8	+0	+0	+0	+256	+256	+0	+0	+0
000001E0	+0	+0	+0	+0	+0	+0	+0	+0
000001E8	+0	+0	+0	+0	+0	+0	-256	+0
000001F0	+256	+0	+0	+0	+0	+0	+0	+0
000001F8	+0	+0	+0	+256	+0	+0	+0	+0
00000200	+0	+0	+0	-256	+0	+0	+0	+0
00000208	+0	+0	+0	+0	+0	+0	+0	+0
00000210	-512	+0	+0	+0	+0	+0	+0	+0
00000218	+0	+0	+0	+0	+0	+0	+0	+0
00000220	+0	+0	+0	+0	+0	+0	+0	+0
00000228	+0	+0	+0	+0	+0	+0	-256	+0
00000230	-256	+0	+0	+0	+0	+0	+0	+0

00000238	+0	+0	+0	+256	+0	+0	+0	+0
00000240	+0	+0	+0	+0	+0	+0	+0	+0
00000248	+0	+0	+0	+0	+0	-256	+256	+0
00000250	+0	+0	+0	+0	+0	+0	+0	+0
00000258	+0	+0	+0	-256	+0	+0	+0	+0
00000260	+0	+0	+0	+0	+0	+0	+0	+0
00000268	+0	+0	+0	+0	+0	+256	+0	+0
00000270	+0	+0	+0	+0	+0	+0	+0	+0
00000278	+0	+0	+0	+0	+0	+0	+0	+0
00000280	+0	+0	+0	+0	+0	+0	+0	+0
00000288	+0	+0	+0	+0	+0	+0	+0	+256
00000290	+0	+0	+0	+0	+0	+0	+0	+0
00000298	+0	+0	+256	+0	+0	+0	+0	+0
000002A0	+0	+256	+0	+0	+0	+256	+0	+0
000002A8	+0	+0	+0	+0	+0	+0	+0	+0
000002B0	+0	+0	+0	+0	+0	+0	+0	+0
000002B8	+0	+0	+0	+0	+0	+0	+0	+0
000002C0	+0	+0	-256	+0	+0	+256	+256	+0
000002C8	+0	+0	+0	+0	+0	+0	+0	+0
000002D0	+0	+0	+0	+0	+0	+0	+0	+0
000002D8	+0	+0	+0	+0	+0	+0	+0	+0
000002E0	+0	-256	-256	+512	+0	-256	+0	+0
000002E8	+0	+0	+0	+0	+0	+0	+0	+0
000002F0	+0	+0	+0	+0	+0	+0	+0	+0
000002F8	+0	+0	+0	+0	+0	+0	+0	+0
00000300	+256	-256	+0	+0	+0	+0	+0	+0
00000308	+0	+256	-256	+0	+0	+0	+0	+0
00000310	+0	+0	+0	+0	+0	+0	+0	+0
00000318	+0	+0	+0	+0	+0	+0	+0	+0
00000320	+0	+0	+0	+0	+0	+0	+0	+0
00000328	+0	+0	+0	+0	+0	+0	+256	+0
00000330	+0	+0	+0	+0	+0	+0	+0	+0
00000338	+0	+0	+0	+0	+0	+0	+0	+0
00000340	+0	+0	+0	+0	+0	+0	+0	+0
00000348	+0	+0	+0	+0	+0	+0	+0	+0
00000350	+0	+0	+0	+0	+0	+0	+0	+0
00000358	+0	+0	+0	+0	+0	+0	+0	+0
00000360	+0	+0	+0	+0	+0	+0	+0	+0
00000368	+0	+0	+0	+0	+0	+0	+0	+0
00000370	-256	+0	+0	+0	+0	+0	+0	+0
00000378	+0	+0	+0	+0	+0	+0	+0	+0
00000380	+0	+0	+0	+0	+0	+0	+0	+0
00000388	+0	+0	+0	+0	+0	+0	+0	+0
00000390	-256	+0	+0	+0	+0	+0	+0	+0
00000398	+0	+0	+0	+0	+0	+0	+0	+0
000003A0	+0	+0	+0	+0	+0	+0	+0	+0
000003A8	+0	+0	+0	+0	+0	+0	+0	+0
000003B0	+0	+0	-256	-256	+256	+0	+0	+0
000003B8	+0	+0	+0	+0	+0	+0	+0	+0
000003C0	+0	+0	+0	+0	+0	+0	+0	+0
000003C8	+0	+0	+0	+0	+0	+0	+0	+0
000003D0	+0	+0	+0	-256	+0	+0	+0	+0
000003D8	+0	+0	+0	+0	+0	+0	+0	+0
000003E0	+0	+0	+0	+0	+0	+0	+0	+0
000003E8	+0	+0	+0	+0	+0	+0	+0	+0
000003F0	+0	+0	+0	+0	+0	+0	+0	+0
000003F8	+0	+0	+0	+0	+0	+0	+0	+0

The sample data for 12.4 fixed-point integers (RDP 8.1) is:

00000000	+0	+0	+0	+0	+0	+0	+0	+0
00000008	+0	+0	+0	+0	+0	+0	+0	+0
00000010	+0	+0	+0	+0	+0	+0	+0	+0
00000018	+0	+0	+0	+0	+0	+0	+0	+0
00000020	+0	+0	+0	+0	+0	+0	+0	+0
00000028	+0	+0	+0	+0	+0	+0	+0	+0
00000030	+0	+0	+0	+0	+0	+0	+0	+0
00000038	+0	+0	+0	+0	+0	+0	+0	+0

00000040	+0	+0	+0	+0	+0	+0	+0	+0
00000048	+0	+0	+0	+0	+0	+0	+0	+0
00000050	+0	+0	+0	+0	+0	+0	+0	+0
00000058	+0	+0	+0	+0	+0	+0	+0	+0
00000060	+0	+0	+0	+0	+0	+0	+0	+0
00000068	+0	+0	+0	+0	+0	+0	+0	+0
00000070	+0	+0	+0	+0	+0	+0	+0	+0
00000078	+0	+0	+0	+0	+0	+0	+0	+0
00000080	+0	+0	+0	+0	+0	+0	+0	+0
00000088	+0	+0	+0	+0	+0	+0	+0	+0
00000090	+0	+0	+0	+0	+0	+0	+0	+0
00000098	+0	+0	+0	+0	+0	+0	+0	+0
000000A0	+0	+0	+0	+0	+0	+0	+0	+0
000000A8	+0	+0	+0	+0	+0	+0	+0	+0
000000B0	+0	+0	+0	+0	+0	+0	+0	+0
000000B8	+0	+0	+0	+0	-128	+128	+0	+0
000000C0	+0	+0	+0	+0	+0	+0	+0	+0
000000C8	+0	+0	+0	+0	+0	+0	+0	+0
000000D0	+0	+0	+0	+0	+0	+0	+0	+0
000000D8	+0	+0	+0	-256	-128	+128	+0	+0
000000E0	+0	+0	+0	+0	+0	-128	-128	+0
000000E8	+0	+0	+0	+0	+0	+0	+0	+0
000000F0	+0	-128	+0	+0	+0	+0	+0	+0
000000F8	+0	+0	-128	+128	-256	+0	+0	+0
00000100	+0	+0	+0	+0	+0	+0	+0	+0
00000108	+0	+0	+0	+0	+0	+0	+0	+0
00000110	+0	+0	-128	+0	+0	+0	+0	+0
00000118	+0	+0	+0	-128	+0	+0	+128	-128
00000120	+0	+0	+0	+0	+0	-128	+0	+0
00000128	+0	+0	+0	+0	+0	+0	+0	+0
00000130	+0	+0	+0	+0	+0	+0	+0	+0
00000138	+0	+0	+0	+0	+0	+0	+0	+0
00000140	+0	+0	+0	+0	+0	+0	+0	+0
00000148	+0	+0	+0	+0	+0	+0	+0	+0
00000150	+0	+0	+0	+0	+0	+0	+0	+0
00000158	+0	+0	+0	+0	+0	+0	+0	+0
00000160	+0	+0	+0	+0	+0	+0	+0	+0
00000168	+0	+0	+0	+0	+0	+0	+0	+0
00000170	+0	+0	+0	+0	+0	+0	+0	+0
00000178	+0	+0	+0	+0	+0	+0	+0	+0
00000180	+0	+0	+0	+0	+0	+0	+0	+0
00000188	+0	+0	+0	-128	+0	+0	+0	+128
00000190	+0	+0	+0	+0	+0	+0	+0	+0
00000198	+0	+0	+0	+0	+0	+0	+0	+0
000001A0	+0	+0	+0	+0	+128	+0	+0	+0
000001A8	+0	+0	+0	+0	+0	+0	+0	-128
000001B0	+0	+128	+0	+0	+0	+0	+0	+0
000001B8	+0	+0	+0	+0	+128	+0	+0	+0
000001C0	+0	+0	+0	+0	+128	+0	+0	+0
000001C8	+0	+0	+0	+0	+0	-128	+0	+0
000001D0	+0	+0	+0	+0	+0	+0	+0	+0
000001D8	+0	+0	+0	+128	+128	+0	+0	+0
000001E0	+0	+0	+0	+0	+0	+0	+0	+0
000001E8	+0	+0	+0	+0	+0	+0	-128	+0
000001F0	+128	+0	+0	+0	+0	+0	+0	+0
000001F8	+0	+0	+0	+128	+0	+0	+0	+0
00000200	+0	+0	+0	-128	+0	+0	+0	+0
00000208	+0	+0	+0	+0	+0	+0	+0	+0
00000210	-256	+0	+0	+0	+0	+0	+0	+0
00000218	+0	+0	+0	+0	+0	+0	+0	+0
00000220	+0	+0	+0	+0	+0	+0	+0	+0
00000228	+0	+0	+0	+0	+0	+0	-128	+0
00000230	-128	+0	+0	+0	+0	+0	+0	+0
00000238	+0	+0	+0	+128	+0	+0	+0	+0
00000240	+0	+0	+0	+0	+0	+0	+0	+0
00000248	+0	+0	+0	+0	+0	-128	+128	+0
00000250	+0	+0	+0	+0	+0	+0	+0	+0
00000258	+0	+0	+0	-128	+0	+0	+0	+0
00000260	+0	+0	+0	+0	+0	+0	+0	+0
00000268	+0	+0	+0	+0	+0	+128	+0	+0

00000270	+0	+0	+0	+0	+0	+0	+0	+0
00000278	+0	+0	+0	+0	+0	+0	+0	+0
00000280	+0	+0	+0	+0	+0	+0	+0	+0
00000288	+0	+0	+0	+0	+0	+0	+0	+128
00000290	+0	+0	+0	+0	+0	+0	+0	+0
00000298	+0	+0	+128	+0	+0	+0	+0	+0
000002A0	+0	+128	+0	+0	+0	+128	+0	+0
000002A8	+0	+0	+0	+0	+0	+0	+0	+0
000002B0	+0	+0	+0	+0	+0	+0	+0	+0
000002B8	+0	+0	+0	+0	+0	+0	+0	+0
000002C0	+0	+0	-128	+0	+0	+128	+128	+0
000002C8	+0	+0	+0	+0	+0	+0	+0	+0
000002D0	+0	+0	+0	+0	+0	+0	+0	+0
000002D8	+0	+0	+0	+0	+0	+0	+0	+0
000002E0	+0	-128	-128	+256	+0	-128	+0	+0
000002E8	+0	+0	+0	+0	+0	+0	+0	+0
000002F0	+0	+0	+0	+0	+0	+0	+0	+0
000002F8	+0	+0	+0	+0	+0	+0	+0	+0
00000300	+128	-128	+0	+0	+0	+0	+0	+0
00000308	+0	+128	-128	+0	+0	+0	+0	+0
00000310	+0	+0	+0	+0	+0	+0	+0	+0
00000318	+0	+0	+0	+0	+0	+0	+0	+0
00000320	+0	+0	+0	+0	+0	+0	+0	+0
00000328	+0	+0	+0	+0	+0	+0	+128	+0
00000330	+0	+0	+0	+0	+0	+0	+0	+0
00000338	+0	+0	+0	+0	+0	+0	+0	+0
00000340	+0	+0	+0	+0	+0	+0	+0	+0
00000348	+0	+0	+0	+0	+0	+0	+0	+0
00000350	+0	+0	+0	+0	+0	+0	+0	+0
00000358	+0	+0	+0	+0	+0	+0	+0	+0
00000360	+0	+0	+0	+0	+0	+0	+0	+0
00000368	+0	+0	+0	+0	+0	+0	+0	+0
00000370	-128	+0	+0	+0	+0	+0	+0	+0
00000378	+0	+0	+0	+0	+0	+0	+0	+0
00000380	+0	+0	+0	+0	+0	+0	+0	+0
00000388	+0	+0	+0	+0	+0	+0	+0	+0
00000390	-128	+0	+0	+0	+0	+0	+0	+0
00000398	+0	+0	+0	+0	+0	+0	+0	+0
000003A0	+0	+0	+0	+0	+0	+0	+0	+0
000003A8	+0	+0	+0	+0	+0	+0	+0	+0
000003B0	+0	+0	-128	-128	+128	+0	+0	+0
000003B8	+0	+0	+0	+0	+0	+0	+0	+0
000003C0	+0	+0	+0	+0	+0	+0	+0	+0
000003C8	+0	+0	+0	+0	+0	+0	+0	+0
000003D0	+0	+0	+0	-128	+0	+0	+0	+0
000003D8	+0	+0	+0	+0	+0	+0	+0	+0
000003E0	+0	+0	+0	+0	+0	+0	+0	+0
000003E8	+0	+0	+0	+0	+0	+0	+0	+0
000003F0	+0	+0	+0	+0	+0	+0	+0	+0
000003F8	+0	+0	+0	+0	+0	+0	+0	+0

4.2.4.3.3.5 Inverse DWT-X (LL1 - HL1)

The following is a dump of the L0 sub-band, as shown in the figure illustrating three-level DWT decomposition in section 3.1.8.1.4.

The sample data for 11.5 fixed-point integers (RDP 7.1/8.0) is:

00000000	-32	+16	+64	+272	-32	-16	+0	-16
00000008	-32	-24	-16	-8	+0	-24	-48	-72
00000010	-96	-90	-84	-78	-72	-98	-124	-150
00000018	-176	-192	-208	-224	-240	-256	-272	-288
00000020	-304	-304	-304	-304	-304	-336	-368	-400
00000028	-432	-450	-468	-486	-504	-522	-540	-558
00000030	-576	-598	-620	-642	-664	-686	-708	-730
00000038	-752	-768	-784	-800	-816	-816	-816	-816
00000040	+168	+224	+281	+209	+138	+126	+115	+103

00000048	+92	+88	+84	+80	+76	+64	+52	+40
00000050	+28	+18	+8	-2	-12	-38	-64	-90
00000058	-116	-105	-95	-148	-201	-198	-195	-192
00000060	-190	-204	-218	-232	-247	-269	-291	-313
00000068	-336	-357	-379	-400	-422	-447	-473	-498
00000070	-524	-546	-569	-591	-614	-660	-707	-689
00000078	-672	-698	-724	-750	-776	-776	-776	-776
00000080	+368	+401	+434	+339	+244	+237	+230	+223
00000088	+216	+200	+184	+168	+152	+152	+152	+152
00000090	+152	+126	+100	+74	+48	+22	-4	-30
00000098	-56	-18	+19	-71	-162	-140	-119	-97
000000A0	-76	-104	-133	-161	-190	-202	-215	-227
000000A8	-240	-265	-290	-315	-340	-373	-406	-439
000000B0	-472	-495	-518	-541	-564	-635	-706	-649
000000B8	-592	-628	-664	-700	-736	-736	-736	-736
000000C0	+376	+649	+411	+364	+318	+795	+249	+342
000000C8	+436	+408	+380	+352	+324	+308	+292	-140
000000D0	-60	+74	+208	+182	+156	+186	+216	+374
000000D8	+532	+504	+476	+320	+165	+61	-42	-146
000000E0	-250	-244	-239	-170	-101	-123	-146	-169
000000E8	-192	-216	-241	-265	-290	-318	-347	-375
000000F0	-404	-399	-395	-454	-514	-557	-601	-356
000000F8	-624	-622	-620	-650	-680	-680	-680	-680
00000100	+1152	+1026	+900	+870	+840	+906	+460	+430
00000108	+400	+424	+448	+408	+368	+400	-592	-240
00000110	+112	+534	+956	+994	+1032	+926	+820	+970
00000118	+1120	+1155	+1190	+1097	+1004	+839	+674	+509
00000120	+344	+191	+38	+13	-12	-45	-78	-111
00000128	-144	-168	-192	-216	-240	-264	-288	-312
00000130	-336	-304	-272	-368	-464	-416	-368	-448
00000138	-528	-552	-576	-600	-624	-624	-624	-624
00000140	+708	+637	+566	+559	+552	+513	+474	+499
00000148	+524	+561	+599	+572	+546	+131	-283	+6
00000150	+296	+665	+1034	+1627	+1708	+1669	+1630	+1623
00000158	+1616	+1711	+1806	+1709	+1612	+1531	+1450	+1241
00000160	+1032	+950	+869	+563	+258	-120	+15	-74
00000168	-164	-180	-197	-150	-103	-123	-144	-165
00000170	-186	-325	-464	-283	-102	-305	-508	-487
00000178	-466	-1022	-1066	-534	-514	-578	-642	-642
00000180	+776	+760	+744	+728	+712	+696	+680	+664
00000188	+648	+635	+622	+577	+532	-457	+90	+413
00000190	+736	+924	+1112	+1524	+1936	+2284	+2120	+2116
00000198	+2112	+2267	+2422	+2321	+2220	+2223	+2226	+1973
000001A0	+1720	+1582	+1444	+1242	+16	-2	-20	+26
000001A8	+72	-65	-203	-212	-222	-239	-257	-274
000001B0	-292	-186	-80	+58	-316	-290	-264	-462
000001B8	+364	+2508	+2604	-436	-916	-1012	-596	-596
000001C0	+876	+855	+834	+813	+792	+803	+814	+825
000001C8	+836	+720	+605	+553	+1014	-18	+487	+735
000001D0	+984	+1239	+1494	+1813	+2132	+2343	+2554	+2573
000001D8	+2592	+2639	+2686	+2861	+3036	+2823	+2610	+2525
000001E0	+2440	+2405	+2371	+448	+62	+115	+169	+1438
000001E8	+1172	+970	+768	+533	+299	+217	+135	+52
000001F0	-30	-63	-96	-161	-226	-419	-100	+955
000001F8	-38	+1842	+1674	-990	-1094	-998	-390	-390
00000200	+976	+950	+924	+898	+872	+846	+820	+794
00000208	+768	+806	+844	+786	+1752	+2534	+756	+994
00000210	+1232	+1554	+1876	+2070	+2264	+2594	+2924	+2998
00000218	+3072	+3139	+3206	+3305	+2380	+3103	+3314	+3173
00000220	+3032	+3005	+1954	-217	+172	-87	+1702	+2147
00000228	+2080	+1973	+1866	+1727	+1588	+1441	+1294	+1147
00000230	+1000	+796	+592	+484	+376	+732	+576	+1092
00000238	+72	-584	-728	+952	+72	-56	-184	-440
00000240	+1076	+1045	+1015	+984	+954	+931	+909	+886
00000248	+864	+751	+639	+462	+1310	+1749	+3213	+1636
00000250	+1596	+1801	+2006	+2307	+2609	+2898	+3187	+3348
00000258	+3510	+3561	+3613	+3568	+1988	+2931	+3875	+3666
00000260	+3458	+3559	+76	+81	+86	+667	+3296	+2981
00000268	+2666	+2652	+2639	+2561	+2484	+2282	+2081	+1943
00000270	+1806	+1713	+1621	+1464	+1308	+1183	+1059	+390

00000278	+234	-60	-354	+1464	+3794	+2226	-366	-622
00000280	+1176	+1141	+1106	+1071	+1036	+1017	+998	+979
00000288	+960	+857	+754	+11	+804	+1605	+1894	+3239
00000290	+2024	+2272	+2521	+2737	+2954	+3074	+3195	+3315
00000298	+3436	+3536	+3636	+3384	+3132	+3144	+3668	+3776
000002A0	+3884	+1937	-10	+155	-192	+3309	+3226	+3207
000002A8	+3188	+3236	+3284	+3204	+3124	+2932	+2740	+2676
000002B0	+2612	+2567	+2522	+2221	+1920	+1539	+1158	+777
000002B8	+396	+112	-172	-744	-804	-580	-356	-356
000002C0	+1212	+1184	+1157	+1129	+1102	+1078	+1055	+967
000002C8	+880	+1082	+261	+527	+794	+1284	+1775	+2393
000002D0	+3012	+2487	+2987	+3231	+3475	+3474	+3474	+3474
000002D8	+3474	+3546	+3619	+3659	+3700	+4012	+3813	+3869
000002E0	+3926	-157	+368	+221	+1610	+3763	+3356	+3461
000002E8	+3566	+3571	+3577	+3518	+3460	+3449	+3439	+3364
000002F0	+3290	+2956	+2623	+2225	+1828	+1570	+1313	+991
000002F8	+670	+328	-14	-452	-378	-314	-250	-250
00000300	+1248	+1228	+1208	+1188	+1168	+1140	+1112	+1084
00000308	+1056	+636	+216	+596	+976	+1252	+2040	+2156
00000310	+2784	+2127	+1982	+2093	+2204	+2531	+2858	+3185
00000318	+3512	+3941	+4370	+4159	+3948	+3921	+3894	+4123
00000320	+1280	+277	+298	+95	+3988	+3609	+3742	+3715
00000328	+3688	+3715	+3742	+3769	+3796	+3711	+3626	+3285
00000330	+2944	+2642	+2340	+2166	+1992	+1794	+1596	+1270
00000338	+944	+480	+16	-352	-208	-304	-400	-400
00000340	+1344	+1340	+1337	+1333	+1330	+1190	+1051	+1071
00000348	+1092	+212	+869	+918	+967	+951	+936	+729
00000350	+522	+517	+513	+445	+377	+292	+208	+28
00000358	+360	+456	+552	+1672	+3304	+3784	+4264	+3400
00000360	-24	+485	-31	+2781	+4058	+4018	+3979	+3907
00000368	+3836	+3818	+3801	+3784	+3767	+3561	+3356	+3407
00000370	+3458	+3642	+3826	+3594	+3363	+2939	+2003	+1163
00000378	+324	+482	-384	-354	-324	-324	-324	-324
00000380	+1440	+1389	+1338	+1287	+1236	+1273	+1310	+1155
00000388	+1512	+1677	+1331	+1048	+766	+523	+281	+454
00000390	+1140	+1532	+901	+1261	+1622	+1734	+1847	+1607
00000398	+856	+587	+318	+177	+36	+319	+1114	+757
000003A0	+400	+340	+792	+4252	+4128	+4076	+4024	+4004
000003A8	+3984	+3922	+3861	+3799	+3738	+3860	+3983	+3849
000003B0	+3716	+3426	+3137	+2975	+2814	+2996	+3179	+3329
000003B8	+3480	+1732	+1520	+124	-248	-248	-248	-248
000003C0	+1472	+1425	+1379	+1332	+1286	+1339	+1393	+1062
000003C8	-804	-1450	-1584	-1365	-1147	-877	-95	+751
000003D0	+1598	+1943	+1776	+2153	+2531	+2872	+3213	+3650
000003D8	+4088	+4134	+3668	+2818	+944	+498	+564	+502
000003E0	+440	+275	+2671	+3850	+4518	+4305	+4093	+3976
000003E8	+3860	+3898	+3936	+3974	+4013	+3783	+3553	+3323
000003F0	+3094	+2858	+2623	+2388	+2153	+1825	+1498	+1267
000003F8	+2572	+538	+552	+150	-252	-252	-252	-252
00000400	+1504	+1462	+1420	+1410	+1400	+1310	+1732	-1558
00000408	-1776	-1089	-914	-611	-308	+59	+938	+1529
00000410	+2120	+2322	+2524	+2854	+3184	+3402	+3620	+3710
00000418	+3800	+3873	+3946	+4211	+4476	+3941	+334	+535
00000420	+736	+179	+134	+409	+684	+2327	+3458	+3853
00000428	+4248	+4162	+4076	+4310	+4032	+3418	+3316	+3150
00000430	+2984	+2611	+2238	+1737	+1236	+975	+714	+197
00000438	-320	-272	-224	-176	-128	-192	-256	-256
00000440	+1588	+1531	+1475	+1450	+1426	+1561	+161	-1751
00000448	-1104	-775	-446	-149	+148	+753	+1358	+1899
00000450	+2440	+2650	+2861	+3136	+3411	+3533	+3656	+3715
00000458	+3774	+3927	+4080	+3913	+4258	+2063	+380	+585
00000460	+278	+3130	+862	+354	-154	-70	+14	+194
00000468	+374	+638	+1414	+1806	+1686	+1634	+1582	+1178
00000470	+774	+463	+152	+1	-149	-580	-499	-33
00000478	-80	-46	-12	-74	-136	-200	-264	-264
00000480	+1672	+1601	+1530	+1491	+1452	+1685	-1666	-1209
00000488	-752	-461	-170	+121	+412	+999	+1586	+2045
00000490	+2504	+2787	+3071	+3354	+3638	+3665	+3693	+3720
00000498	+3748	+3629	+3510	+3327	+2632	+377	+682	+283
000004A0	+2444	+4257	+4534	+4043	+3552	+2141	+730	+471

000004A8	+212	-102	-416	-474	-532	-502	-472	-314
000004B0	-156	+11	+179	+442	+1218	+1897	+2577	+952
000004B8	-160	-108	-56	-100	-144	-208	-272	-272
000004C0	+1580	+1614	+1649	+1459	+1782	-268	-1293	-1006
000004C8	-720	-443	-166	+79	+324	+549	+1286	+1799
000004D0	+2312	+2620	+2928	+3108	+3289	+3281	+3273	+3329
000004D8	+3386	+3443	+3500	+3045	+1054	+655	+768	+593
000004E0	+4002	+4056	+4110	+4068	+4026	+4236	+4446	+4208
000004E8	+3970	+3742	+3514	+3478	+3442	+3274	+3106	+3322
000004F0	+3538	+3587	+3637	+3399	+3161	+2986	+2300	-402
000004F8	-32	-122	-212	-174	-136	-200	-264	-264
00000500	+1744	+1692	+1640	+1588	+1536	-1900	-1240	-964
00000508	-688	-361	-34	+165	+364	+675	+986	+1553
00000510	+2120	+2389	+2658	+2671	+2684	+2705	+2726	+2875
00000518	+3024	+3001	+2978	+2475	+436	+837	+214	+3143
00000520	+4024	+4015	+4006	+3997	+3988	+3963	+3938	+3913
00000528	+3888	+3842	+3796	+3590	+3896	+3946	+3996	+3694
00000530	+3392	+3292	+3192	+3028	+2864	+3148	+360	-92
00000538	-32	-72	-112	-120	-128	-192	-256	-256
00000540	+1860	+1546	+1745	+2072	-1185	-1426	-1155	-820
00000548	-486	-207	+71	+317	+563	+449	+847	+669
00000550	+1004	+1302	+1600	+1802	+2005	+2191	+2377	+2435
00000558	+2494	+2477	+2460	+843	+763	+730	+1209	+4120
00000560	+3960	+4011	+4062	+3985	+3908	+3883	+3858	+3833
00000568	+3808	+3707	+3607	+3571	+3535	+3506	+3478	+3706
00000570	+3934	+3916	+3899	+3786	+3673	+2368	-473	+14
00000578	-12	-24	-36	-80	-124	-156	-188	-188
00000580	+1720	+1849	+1979	+1180	-1666	-1272	-1391	-453
00000588	-540	-758	+47	-364	+250	+383	+517	+170
00000590	+336	+439	+543	+678	+814	+1229	+1645	+1644
00000598	+1644	+1697	+1239	+748	+770	+399	+3613	+3978
000005A0	+3832	+3847	+3862	+3845	+3828	+3803	+3778	+3753
000005A8	+3728	+3669	+3611	+3552	+3494	+3419	+3345	+3142
000005B0	+2940	+2813	+2687	+2624	+2562	-237	+37	-9
000005B8	-56	-72	-88	-104	-120	-120	-120	-120
000005C0	+1820	+1760	+2212	-2232	-1555	-762	-1506	-1290
000005C8	-1586	-717	-872	-803	-735	-1302	-846	-389
000005D0	-444	-127	-323	-70	+183	+143	+104	+321
000005D8	+538	+777	+1017	+841	+665	+1924	+3696	+3708
000005E0	+3720	+3731	+3742	+3721	+3700	+3431	+3674	+3629
000005E8	+3584	+3523	+3462	+3401	+3341	+3264	+3187	+2982
000005F0	+2778	+2562	+2346	+2418	+955	-13	+44	+68
000005F8	+92	+36	-20	-76	-132	-132	-132	-132
00000600	+1664	+1991	-754	-3435	-2020	-2493	-1942	-751
00000608	+440	+124	+832	+1508	+1672	+1492	+1312	+1004
00000610	+696	-182	-548	-1074	-1088	-1134	-668	-330
00000618	-504	+402	+796	+902	+496	+3610	+3652	+3598
00000620	+3544	+3583	+3622	+3533	+3444	+3443	+3442	+3441
00000628	+3440	+3377	+3314	+3251	+3188	+3109	+3030	+2823
00000630	+2616	+2439	+2262	+2053	-204	+211	+114	+49
00000638	-16	-48	-80	-112	-144	-144	-144	-144
00000640	+1800	+1778	+221	+1352	+1459	+1793	+2128	+2111
00000648	+1582	+1477	+1373	+1333	+1293	+1528	+1252	+1488
00000650	+1212	+1345	+1478	+1227	+977	+438	-613	-1279
00000658	-922	+1323	+1008	+885	+2299	+3228	+3133	+3262
00000660	+3392	+3204	+3016	+3212	+3409	+3305	+3201	+3449
00000668	+3186	+3153	+3121	+3056	+2992	+2887	+2783	+2550
00000670	+2318	+2175	+2032	+545	+82	+95	+108	+57
00000678	+6	-26	-58	-90	-122	-122	-122	-122
00000680	+1680	+1694	+1709	+1595	+1482	+1472	+1463	+1453
00000688	+1444	+1391	+1339	+1286	+1234	+1213	+1193	+1172
00000690	+1152	+1112	+1073	+1065	+1058	+922	+1299	+1131
00000698	+964	+868	+773	+709	+2182	+2302	+2423	+2799
000006A0	+2664	+2793	+2923	+2860	+2798	+3007	+2705	+3106
000006A8	+2996	+2962	+2928	+2862	+2796	+2666	+2536	+2278
000006B0	+2020	+1783	+1546	-227	+48	+43	+38	+33
000006B8	+28	-4	-36	-68	-100	-100	-100	-100
000006C0	+1624	+1650	+1676	+1638	+1601	+1551	+1501	+1451
000006C8	+1402	+1361	+1320	+1279	+1239	+1214	+1189	+1164
000006D0	+1140	+1103	+1067	+1031	+995	+1014	+1034	+926

000006D8	+818	+885	+953	+989	+1025	+992	+1472	+2048
000006E0	+2112	+1886	+2173	+2108	+2555	+2485	+2416	+2411
000006E8	+2406	+2726	+2535	+2311	+2088	+2068	+2049	+1997
000006F0	+1946	+1779	+76	+69	+62	+83	+104	+61
000006F8	+18	-10	-38	-66	-94	-126	-158	-158
00000700	+1824	+1734	+1644	+1554	+1464	+1438	+1412	+1386
00000708	+1360	+1331	+1302	+1273	+1244	+1215	+1186	+1157
00000710	+1128	+1095	+1062	+1029	+996	+979	+962	+945
00000718	+928	+871	+814	+789	+764	+707	+1162	+1585
00000720	+2008	+1588	+1168	+1356	+1544	+1836	+1616	+1940
00000728	+1752	+2235	+2206	+1217	+1252	+1311	+1370	+1013
00000730	+144	+143	+142	+109	+76	+59	+42	+25
00000738	+8	-16	-40	-64	-88	-152	-216	-216
00000740	+1552	+1528	+1504	+1480	+1456	+1420	+1384	+1348
00000748	+1312	+1289	+1266	+1243	+1220	+1197	+1174	+1151
00000750	+1128	+1091	+1054	+1017	+980	+959	+938	+917
00000758	+896	+853	+810	+767	+724	+613	+502	+551
00000760	+600	+384	+680	+560	+440	+376	+1336	+1528
00000768	+1208	+989	+258	+231	+204	+137	+70	+131
00000770	+192	+167	+142	+117	+92	+71	+50	+29
00000778	+8	-20	-48	-76	-104	-136	-168	-168
00000780	+1536	+1514	+1492	+1470	+1448	+1402	+1356	+1310
00000788	+1264	+1247	+1230	+1213	+1196	+1179	+1162	+1145
00000790	+1128	+1087	+1046	+1005	+964	+939	+914	+889
00000798	+864	+835	+806	+777	+748	+711	+674	+637
000007A0	+600	+588	+576	+564	+552	+580	+608	+1660
000007A8	+1176	+511	+358	+333	+308	+275	+242	+209
000007B0	+176	+159	+142	+125	+108	+83	+58	+33
000007B8	+8	-24	-56	-88	-120	-120	-120	-120
000007C0	+1536	+1514	+1492	+1470	+1448	+1402	+1356	+1310
000007C8	+1264	+1247	+1230	+1213	+1196	+1179	+1162	+1145
000007D0	+1128	+1087	+1046	+1005	+964	+939	+914	+889
000007D8	+864	+835	+806	+777	+748	+711	+674	+637
000007E0	+600	+588	+576	+564	+552	+452	+352	+92
000007E8	+344	+319	+294	+301	+308	+275	+242	+209
000007F0	+176	+159	+142	+125	+108	+83	+58	+33
000007F8	+8	-24	-56	-88	-120	-120	-120	-120

The sample data for 12.4 fixed-point integers (RDP 8.1) is:

00000000	-16	+8	+32	+136	-16	-8	+0	-8
00000008	-16	-12	-8	-4	+0	-12	-24	-36
00000010	-48	-45	-42	-39	-36	-49	-62	-75
00000018	-88	-96	-104	-112	-120	-128	-136	-144
00000020	-152	-152	-152	-152	-152	-168	-184	-200
00000028	-216	-225	-234	-243	-252	-261	-270	-279
00000030	-288	-299	-310	-321	-332	-343	-354	-365
00000038	-376	-384	-392	-400	-408	-408	-408	-408
00000040	+84	+112	+140	+104	+69	+63	+57	+51
00000048	+46	+44	+42	+40	+38	+32	+26	+20
00000050	+14	+9	+4	-1	-6	-19	-32	-45
00000058	-58	-52	-47	-74	-100	-99	-97	-96
00000060	-95	-102	-109	-116	-123	-134	-145	-156
00000068	-168	-178	-189	-200	-211	-223	-236	-249
00000070	-262	-273	-284	-295	-307	-330	-353	-344
00000078	-336	-349	-362	-375	-388	-388	-388	-388
00000080	+184	+200	+217	+169	+122	+118	+115	+111
00000088	+108	+100	+92	+84	+76	+76	+76	+76
00000090	+76	+63	+50	+37	+24	+11	-2	-15
00000098	-28	-9	+9	-35	-81	-70	-59	-48
000000A0	-38	-52	-66	-80	-95	-101	-107	-113
000000A8	-120	-132	-145	-157	-170	-186	-203	-219
000000B0	-236	-247	-259	-270	-282	-317	-353	-324
000000B8	-296	-314	-332	-350	-368	-368	-368	-368
000000C0	+188	+324	+205	+182	+159	+397	+124	+171
000000C8	+218	+204	+190	+176	+162	+154	+146	-70
000000D0	-30	+37	+104	+91	+78	+93	+108	+187
000000D8	+266	+252	+238	+160	+82	+30	-21	-73

000000E0	-125	-122	-119	-85	-50	-61	-73	-84
000000E8	-96	-108	-120	-132	-145	-159	-173	-187
000000F0	-202	-199	-197	-227	-257	-278	-300	-178
000000F8	-312	-311	-310	-325	-340	-340	-340	-340
00000100	+576	+513	+450	+435	+420	+453	+230	+215
00000108	+200	+212	+224	+204	+184	+200	-296	-120
00000110	+56	+267	+478	+497	+516	+463	+410	+485
00000118	+560	+577	+595	+548	+502	+419	+337	+254
00000120	+172	+95	+19	+6	-6	-22	-39	-55
00000128	-72	-84	-96	-108	-120	-132	-144	-156
00000130	-168	-152	-136	-184	-232	-208	-184	-224
00000138	-264	-276	-288	-300	-312	-312	-312	-312
00000140	+354	+318	+283	+279	+276	+256	+237	+249
00000148	+262	+280	+299	+286	+273	+65	-141	+3
00000150	+148	+332	+517	+813	+854	+834	+815	+811
00000158	+808	+855	+903	+854	+806	+765	+725	+620
00000160	+516	+475	+434	+281	+129	-60	+7	-37
00000168	-82	-90	-98	-75	-51	-61	-72	-82
00000170	-93	-162	-232	-141	-51	-152	-254	-243
00000178	-233	-511	-533	-267	-257	-289	-321	-321
00000180	+388	+380	+372	+364	+356	+348	+340	+332
00000188	+324	+317	+311	+288	+266	-228	+45	+206
00000190	+368	+462	+556	+762	+968	+1142	+1060	+1058
00000198	+1056	+1133	+1211	+1160	+1110	+1111	+1113	+986
000001A0	+860	+791	+722	+621	+8	-1	-10	+13
000001A8	+36	-32	-101	-106	-111	-119	-128	-137
000001B0	-146	-93	-40	+29	-158	-145	-132	-231
000001B8	+182	+1254	+1302	-218	-458	-506	-298	-298
000001C0	+438	+427	+417	+406	+396	+401	+407	+412
000001C8	+418	+360	+302	+276	+507	-9	+243	+367
000001D0	+492	+619	+747	+906	+1066	+1171	+1277	+1286
000001D8	+1296	+1319	+1343	+1430	+1518	+1411	+1305	+1262
000001E0	+1220	+1202	+1185	+224	+31	+57	+84	+719
000001E8	+586	+485	+384	+266	+149	+108	+67	+26
000001F0	-15	-31	-48	-80	-113	-209	-50	+477
000001F8	-19	+921	+837	-495	-547	-499	-195	-195
00000200	+488	+475	+462	+449	+436	+423	+410	+397
00000208	+384	+403	+422	+393	+876	+1267	+378	+497
00000210	+616	+777	+938	+1035	+1132	+1297	+1462	+1499
00000218	+1536	+1569	+1603	+1652	+1190	+1551	+1657	+1586
00000220	+1516	+1502	+977	-108	+86	-43	+851	+1073
00000228	+1040	+986	+933	+863	+794	+720	+647	+573
00000230	+500	+398	+296	+242	+188	+366	+288	+546
00000238	+36	-292	-364	+476	+36	-28	-92	-220
00000240	+538	+522	+507	+492	+477	+465	+454	+443
00000248	+432	+375	+319	+231	+655	+874	+1606	+818
00000250	+798	+900	+1003	+1153	+1304	+1449	+1593	+1674
00000258	+1755	+1780	+1806	+1784	+994	+1465	+1937	+1833
00000260	+1729	+1779	+38	+40	+43	+333	+1648	+1490
00000268	+1333	+1326	+1319	+1280	+1242	+1141	+1040	+971
00000270	+903	+856	+810	+732	+654	+591	+529	+195
00000278	+117	-30	-177	+732	+1897	+1113	-183	-311
00000280	+588	+570	+553	+535	+518	+508	+499	+489
00000288	+480	+428	+377	+5	+402	+802	+947	+1619
00000290	+1012	+1136	+1260	+1368	+1477	+1537	+1597	+1657
00000298	+1718	+1768	+1818	+1692	+1566	+1572	+1834	+1888
000002A0	+1942	+968	-5	+77	-96	+1654	+1613	+1603
000002A8	+1594	+1618	+1642	+1602	+1562	+1466	+1370	+1338
000002B0	+1306	+1283	+1261	+1110	+960	+769	+579	+388
000002B8	+198	+56	-86	-372	-402	-290	-178	-178
000002C0	+606	+592	+578	+564	+551	+539	+527	+483
000002C8	+440	+541	+130	+263	+397	+642	+887	+1196
000002D0	+1506	+1243	+1493	+1615	+1737	+1737	+1737	+1737
000002D8	+1737	+1773	+1809	+1829	+1850	+2006	+1906	+1934
000002E0	+1963	-78	+184	+110	+805	+1881	+1678	+1730
000002E8	+1783	+1785	+1788	+1759	+1730	+1724	+1719	+1682
000002F0	+1645	+1478	+1311	+1112	+914	+785	+656	+495
000002F8	+335	+164	-7	-226	-189	-157	-125	-125
00000300	+624	+614	+604	+594	+584	+570	+556	+542
00000308	+528	+318	+108	+298	+488	+626	+1020	+1078

00000310	+1392	+1063	+991	+1046	+1102	+1265	+1429	+1592
00000318	+1756	+1970	+2185	+2079	+1974	+1960	+1947	+2061
00000320	+640	+138	+149	+47	+1994	+1804	+1871	+1857
00000328	+1844	+1857	+1871	+1884	+1898	+1855	+1813	+1642
00000330	+1472	+1321	+1170	+1083	+996	+897	+798	+635
00000338	+472	+240	+8	-176	-104	-152	-200	-200
00000340	+672	+670	+668	+666	+665	+595	+525	+535
00000348	+546	+106	+434	+459	+483	+475	+468	+364
00000350	+261	+258	+256	+222	+188	+146	+104	+14
00000358	+180	+228	+276	+836	+1652	+1892	+2132	+1700
00000360	-12	+242	-15	+1390	+2029	+2009	+1989	+1953
00000368	+1918	+1909	+1900	+1892	+1883	+1780	+1678	+1703
00000370	+1729	+1821	+1913	+1797	+1681	+1469	+1001	+581
00000378	+162	+241	-192	-177	-162	-162	-162	-162
00000380	+720	+694	+669	+643	+618	+636	+655	+577
00000388	+756	+838	+665	+524	+383	+261	+140	+227
00000390	+570	+766	+450	+630	+811	+867	+923	+803
00000398	+428	+293	+159	+88	+18	+159	+557	+378
000003A0	+200	+170	+396	+2126	+2064	+2038	+2012	+2002
000003A8	+1992	+1961	+1930	+1899	+1869	+1930	+1991	+1924
000003B0	+1858	+1713	+1568	+1487	+1407	+1498	+1589	+1664
000003B8	+1740	+866	+760	+62	-124	-124	-124	-124
000003C0	+736	+712	+689	+666	+643	+669	+696	+531
000003C8	-402	-725	-792	-682	-573	-438	-47	+375
000003D0	+799	+971	+888	+1076	+1265	+1436	+1606	+1825
000003D8	+2044	+2067	+1834	+1409	+472	+249	+282	+251
000003E0	+220	+137	+1335	+1925	+2259	+2152	+2046	+1988
000003E8	+1930	+1949	+1968	+1987	+2006	+1891	+1776	+1661
000003F0	+1547	+1429	+1311	+1194	+1076	+912	+749	+633
000003F8	+1286	+269	+276	+75	-126	-126	-126	-126
00000400	+752	+731	+710	+705	+700	+655	+866	-779
00000408	-888	-544	-457	-305	-154	+29	+469	+764
00000410	+1060	+1161	+1262	+1427	+1592	+1701	+1810	+1855
00000418	+1900	+1936	+1973	+2105	+2238	+1970	+167	+267
00000420	+368	+89	+67	+204	+342	+1163	+1729	+1926
00000428	+2124	+2081	+2038	+2155	+2016	+1709	+1658	+1575
00000430	+1492	+1305	+1119	+868	+618	+487	+357	+98
00000438	-160	-136	-112	-88	-64	-96	-128	-128
00000440	+794	+765	+737	+725	+713	+780	+80	-875
00000448	-552	-387	-223	-74	+74	+376	+679	+949
00000450	+1220	+1325	+1430	+1568	+1705	+1766	+1828	+1857
00000458	+1887	+1963	+2040	+1956	+2129	+1031	+190	+292
00000460	+139	+1565	+431	+177	-77	-35	+7	+97
00000468	+187	+319	+707	+903	+843	+817	+791	+589
00000470	+387	+231	+76	+0	-74	-290	-249	-16
00000478	-40	-23	-6	-37	-68	-100	-132	-132
00000480	+836	+800	+765	+745	+726	+842	-833	-604
00000488	-376	-230	-85	+60	+206	+499	+793	+1022
00000490	+1252	+1393	+1535	+1677	+1819	+1832	+1846	+1860
00000498	+1874	+1814	+1755	+1663	+1316	+188	+341	+141
000004A0	+1222	+2128	+2267	+2021	+1776	+1070	+365	+235
000004A8	+106	-51	-208	-237	-266	-251	-236	-157
000004B0	-78	+5	+89	+221	+609	+948	+1288	+476
000004B8	-80	-54	-28	-50	-72	-104	-136	-136
000004C0	+790	+807	+824	+729	+891	-134	-646	-503
000004C8	-360	-221	-83	+39	+162	+274	+643	+899
000004D0	+1156	+1310	+1464	+1554	+1644	+1640	+1636	+1664
000004D8	+1693	+1721	+1750	+1522	+527	+327	+384	+296
000004E0	+2001	+2028	+2055	+2034	+2013	+2118	+2223	+2104
000004E8	+1985	+1871	+1757	+1739	+1721	+1637	+1553	+1661
000004F0	+1769	+1793	+1818	+1699	+1580	+1493	+1150	-201
000004F8	-16	-61	-106	-87	-68	-100	-132	-132
00000500	+872	+846	+820	+794	+768	-950	-620	-482
00000508	-344	-180	-17	+82	+182	+337	+493	+776
00000510	+1060	+1194	+1329	+1335	+1342	+1352	+1363	+1437
00000518	+1512	+1500	+1489	+1237	+218	+418	+107	+1571
00000520	+2012	+2007	+2003	+1998	+1994	+1981	+1969	+1956
00000528	+1944	+1921	+1898	+1795	+1948	+1973	+1998	+1847
00000530	+1696	+1646	+1596	+1514	+1432	+1574	+180	-46
00000538	-16	-36	-56	-60	-64	-96	-128	-128

00000540	+930	+773	+872	+1036	-592	-713	-577	-410
00000548	-243	-103	+35	+158	+281	+224	+423	+334
00000550	+502	+651	+800	+901	+1002	+1095	+1188	+1217
00000558	+1247	+1238	+1230	+421	+381	+365	+604	+2060
00000560	+1980	+2005	+2031	+1992	+1954	+1941	+1929	+1916
00000568	+1904	+1853	+1803	+1785	+1767	+1753	+1739	+1853
00000570	+1967	+1958	+1949	+1893	+1836	+1184	-236	+7
00000578	-6	-12	-18	-40	-62	-78	-94	-94
00000580	+860	+924	+989	+590	-833	-636	-695	-226
00000588	-270	-379	+23	-182	+125	+191	+258	+85
00000590	+168	+219	+271	+339	+407	+614	+822	+822
00000598	+822	+848	+619	+374	+385	+199	+1806	+1989
000005A0	+1916	+1923	+1931	+1922	+1914	+1901	+1889	+1876
000005A8	+1864	+1834	+1805	+1776	+1747	+1709	+1672	+1571
000005B0	+1470	+1406	+1343	+1312	+1281	-118	+18	-4
000005B8	-28	-36	-44	-52	-60	-60	-60	-60
000005C0	+910	+880	+1106	-1116	-777	-381	-753	-645
000005C8	-793	-358	-436	-401	-367	-651	-423	-194
000005D0	-222	-63	-161	-35	+91	+71	+52	+160
000005D8	+269	+388	+508	+420	+332	+962	+1848	+1854
000005E0	+1860	+1865	+1871	+1860	+1850	+1715	+1837	+1814
000005E8	+1792	+1761	+1731	+1700	+1670	+1632	+1593	+1491
000005F0	+1389	+1281	+1173	+1209	+477	-6	+22	+34
000005F8	+46	+18	-10	-38	-66	-66	-66	-66
00000600	+832	+995	-377	-1717	-1010	-1246	-971	-375
00000608	+220	+62	+416	+754	+836	+746	+656	+502
00000610	+348	-91	-274	-537	-544	-567	-334	-165
00000618	-252	+201	+398	+451	+248	+1805	+1826	+1799
00000620	+1772	+1791	+1811	+1766	+1722	+1721	+1721	+1720
00000628	+1720	+1688	+1657	+1625	+1594	+1554	+1515	+1411
00000630	+1308	+1219	+1131	+1026	-102	+105	+57	+24
00000638	-8	-24	-40	-56	-72	-72	-72	-72
00000640	+900	+889	+110	+676	+729	+896	+1064	+1055
00000648	+791	+738	+686	+666	+646	+764	+626	+744
00000650	+606	+672	+739	+613	+488	+219	-306	-639
00000658	-461	+661	+504	+442	+1149	+1614	+1566	+1631
00000660	+1696	+1602	+1508	+1606	+1704	+1652	+1600	+1724
00000668	+1593	+1576	+1560	+1528	+1496	+1443	+1391	+1275
00000670	+1159	+1087	+1016	+272	+41	+47	+54	+28
00000678	+3	-13	-29	-45	-61	-61	-61	-61
00000680	+840	+847	+854	+797	+741	+736	+731	+726
00000688	+722	+695	+669	+643	+617	+606	+596	+586
00000690	+576	+556	+536	+532	+529	+461	+649	+565
00000698	+482	+434	+386	+354	+1091	+1151	+1211	+1399
000006A0	+1332	+1396	+1461	+1430	+1399	+1503	+1352	+1553
000006A8	+1498	+1481	+1464	+1431	+1398	+1333	+1268	+1139
000006B0	+1010	+891	+773	-113	+24	+21	+19	+16
000006B8	+14	-2	-18	-34	-50	-50	-50	-50
000006C0	+812	+825	+838	+819	+800	+775	+750	+725
000006C8	+701	+680	+660	+639	+619	+607	+594	+582
000006D0	+570	+551	+533	+515	+497	+507	+517	+463
000006D8	+409	+442	+476	+494	+512	+496	+736	+1024
000006E0	+1056	+943	+1086	+1054	+1277	+1242	+1208	+1205
000006E8	+1203	+1363	+1267	+1155	+1044	+1034	+1024	+998
000006F0	+973	+889	+38	+34	+31	+41	+52	+30
000006F8	+9	-5	-19	-33	-47	-63	-79	-79
00000700	+912	+867	+822	+777	+732	+719	+706	+693
00000708	+680	+665	+651	+636	+622	+607	+593	+578
00000710	+564	+547	+531	+514	+498	+489	+481	+472
00000718	+464	+435	+407	+394	+382	+353	+581	+792
00000720	+1004	+794	+584	+678	+772	+918	+808	+970
00000728	+876	+1117	+1103	+608	+626	+655	+685	+506
00000730	+72	+71	+71	+54	+38	+29	+21	+12
00000738	+4	-8	-20	-32	-44	-76	-108	-108
00000740	+776	+764	+752	+740	+728	+710	+692	+674
00000748	+656	+644	+633	+621	+610	+598	+587	+575
00000750	+564	+545	+527	+508	+490	+479	+469	+458
00000758	+448	+426	+405	+383	+362	+306	+251	+275
00000760	+300	+192	+340	+280	+220	+188	+668	+764
00000768	+604	+494	+129	+115	+102	+68	+35	+65

00000770	+96	+83	+71	+58	+46	+35	+25	+14
00000778	+4	-10	-24	-38	-52	-68	-84	-84
00000780	+768	+757	+746	+735	+724	+701	+678	+655
00000788	+632	+623	+615	+606	+598	+589	+581	+572
00000790	+564	+543	+523	+502	+482	+469	+457	+444
00000798	+432	+417	+403	+388	+374	+355	+337	+318
000007A0	+300	+294	+288	+282	+276	+290	+304	+830
000007A8	+588	+255	+179	+166	+154	+137	+121	+104
000007B0	+88	+79	+71	+62	+54	+41	+29	+16
000007B8	+4	-12	-28	-44	-60	-60	-60	-60
000007C0	+768	+757	+746	+735	+724	+701	+678	+655
000007C8	+632	+623	+615	+606	+598	+589	+581	+572
000007D0	+564	+543	+523	+502	+482	+469	+457	+444
000007D8	+432	+417	+403	+388	+374	+355	+337	+318
000007E0	+300	+294	+288	+282	+276	+226	+176	+46
000007E8	+172	+159	+147	+150	+154	+137	+121	+104
000007F0	+88	+79	+71	+62	+54	+41	+29	+16
000007F8	+4	-12	-28	-44	-60	-60	-60	-60

4.2.4.3.3.6 Inverse DWT-X (LH1 - HH1)

The following is a dump of the H0 sub-band, as shown in the figure illustrating three-level DWT decomposition in section 3.1.8.1.4.

The sample data for 11.5 fixed-point integers (RDP 7.1/8.0) is:

00000000	+0	+0	+0	+0	+0	+0	+0	+0
00000008	+0	+0	+0	+0	+0	+0	+0	+0
00000010	+0	+0	+0	+0	+0	+0	+0	+0
00000018	+0	+0	+0	+0	+0	+0	+0	+0
00000020	+0	+0	+0	+0	+0	+0	+0	+0
00000028	+0	+0	+0	+0	+0	+0	+0	+0
00000030	+0	+0	+0	+0	+0	+0	+0	+0
00000038	+0	+0	+0	+0	+0	+0	+0	+0
00000040	+0	+0	+0	+0	+0	+0	+0	+0
00000048	+0	+0	+0	+0	+0	+0	+0	+0
00000050	+0	+0	+0	+0	+0	+0	+0	+0
00000058	+0	+0	+0	+0	+0	+0	+0	+0
00000060	+0	+0	+0	+0	+0	+0	+0	+0
00000068	+0	+0	+0	+0	+0	+0	+0	+0
00000070	+0	+0	+0	+0	+0	+0	+0	+0
00000078	+0	+0	+0	+0	+0	+0	+0	+0
00000080	+0	+0	+0	+0	+0	+0	+0	+0
00000088	+0	+0	+0	+0	+0	+0	+0	+64
00000090	+128	+64	+0	-64	-128	-128	-128	-64
00000098	+0	+0	+0	-64	-128	-128	-128	+0
000000A0	+128	+64	+0	+0	+0	+0	+0	+0
000000A8	+0	+0	+0	+0	+0	+0	+0	+0
000000B0	+0	+0	+0	+0	+0	+0	+0	+0
000000B8	+0	+0	+0	+0	+0	+0	+0	+0
000000C0	-128	-128	-128	-128	-128	-64	+0	+0
000000C8	+0	+0	+0	+0	+0	-64	-128	-64
000000D0	+0	+0	+0	+0	+0	+0	+0	+0
000000D8	+0	+0	+0	+0	+0	+0	+0	+0
000000E0	+0	-64	-128	-64	+0	+0	+0	+0
000000E8	+0	+0	+0	+0	+0	+0	+0	+0
000000F0	+0	+0	+0	+0	+0	+0	+0	+0
000000F8	+0	+0	+0	+0	+0	+0	+0	+0
00000100	-128	-128	-128	-128	-128	-64	+0	+0
00000108	+0	+0	+0	+0	+0	+0	+0	+0
00000110	+0	+0	+0	+0	+0	+0	+0	+0
00000118	+0	+0	+0	+0	+0	+0	+0	+0
00000120	+0	+0	+0	+0	+0	+0	+0	+0
00000128	+0	+0	+0	+0	+0	+0	+0	+0
00000130	+0	+0	+0	+0	+0	+0	+0	+0
00000138	+0	+0	+0	+0	+0	+0	+0	+0
00000140	+0	+0	+0	+0	+0	+0	+0	+0

00000148	+0	+0	+0	+0	+0	+0	+0	+0
00000150	+0	+0	+0	+0	+0	+0	+0	+0
00000158	+0	+0	+0	+0	+0	+0	+0	+0
00000160	+0	+0	+0	+0	+0	+0	+0	-64
00000168	-128	+0	+128	+64	+0	+0	+0	+0
00000170	+0	+0	+0	+0	+0	+0	+0	-64
00000178	-128	-1088	-1024	+64	+128	+64	+0	+0
00000180	+0	+0	+0	+0	+0	+0	+0	+0
00000188	+0	+0	+0	-64	-128	-64	+0	+0
00000190	+0	+0	+0	+0	+0	+0	+0	+0
00000198	+0	+0	+0	+0	+0	+0	+0	+0
000001A0	+0	+0	+0	+0	+0	+0	+0	+0
000001A8	+0	+0	+0	-64	-128	-64	+0	+0
000001B0	+0	+64	+128	+64	+0	+0	+0	-576
000001B8	+896	+192	+512	+640	-256	-128	+0	+0
000001C0	+0	+0	+0	+0	+0	+0	+0	+0
000001C8	+0	+0	+0	-192	+640	-192	+0	+0
000001D0	+0	+0	+0	+0	+0	+0	+0	+0
000001D8	+0	+0	+0	+64	+128	+64	+0	+0
000001E0	+0	+128	+256	-320	+128	+64	+0	+0
000001E8	+0	+0	+0	+0	+0	+0	+0	+0
000001F0	+0	+0	+0	+0	+0	-320	+384	+960
000001F8	+512	-1088	-640	-384	-128	-64	+0	+0
00000200	+0	+0	+0	+0	+0	+0	+0	+0
00000208	+0	+0	+0	+0	+0	+64	+128	+64
00000210	+0	+0	+0	+0	+0	+0	+0	+0
00000218	+0	+0	+0	+0	+0	+0	+0	+0
00000220	+0	+0	+0	+0	+0	-384	+256	+128
00000228	+0	+0	+0	+0	+0	+0	+0	+0
00000230	+0	+0	+0	+0	+0	+128	+256	-320
00000238	+128	+64	+0	+320	+640	+1024	+384	-128
00000240	+0	+0	+0	+0	+0	+0	+0	+0
00000248	+0	+64	+128	-384	+128	+64	+0	+0
00000250	+0	+0	+0	+0	+0	+64	+128	+64
00000258	+0	+0	+0	+0	+0	+0	+0	+64
00000260	+128	+64	+0	+0	+0	+0	+0	+0
00000268	+0	+0	+0	+0	+0	+0	+0	+0
00000270	+0	+0	+0	+0	+0	+0	+0	+0
00000278	+0	+0	+0	-512	-1024	-512	+0	+0
00000280	+0	+0	+0	+0	+0	+0	+0	+0
00000288	+0	+0	+0	+0	+0	+0	+0	+0
00000290	+0	+0	+0	+0	+0	+64	+128	-64
00000298	-256	-256	-256	+0	+256	+64	-128	-64
000002A0	+0	+0	+0	-64	-128	-64	+0	+0
000002A8	+0	+0	+0	+0	+0	+0	+0	+0
000002B0	+0	+0	+0	+0	+0	+0	+0	+0
000002B8	+0	+0	+0	+0	+0	+0	+0	+0
000002C0	+0	+0	+0	+0	+0	+0	+0	+0
000002C8	+0	-64	-128	-64	+0	+0	+0	+64
000002D0	+128	+128	+128	+256	+384	+256	+128	+64
000002D8	+0	+0	+0	+0	+0	+0	+0	+0
000002E0	+0	+0	+0	+0	+0	+0	+0	+0
000002E8	+0	+0	+0	+0	+0	+64	+128	+64
000002F0	+0	+0	+0	+0	+0	+0	+0	+0
000002F8	+0	+0	+0	+0	+0	+0	+0	+0
00000300	+0	+0	+0	+0	+0	+0	+0	+0
00000308	+0	-64	-128	-64	+0	-64	-128	-384
00000310	-640	-512	-384	-448	-512	-576	-640	-1152
00000318	-640	+128	+896	+512	+128	+64	+0	+384
00000320	-256	-128	+0	+0	+0	+0	+0	+0
00000328	+0	+0	+0	+0	+0	+0	+0	-64
00000330	-128	-192	-256	-320	-384	-192	+0	+64
00000338	+128	+64	+0	+0	+0	+0	+0	+0
00000340	+0	+0	+0	+0	+0	+0	+0	-64
00000348	-128	+448	+0	+0	+0	+128	+256	+64
00000350	-128	-64	+0	-128	-256	-320	-384	-128
00000358	+128	+128	+128	-448	-1024	-64	+896	+0
00000360	+128	-64	-256	+384	+0	+0	+0	+0
00000368	+0	+0	+0	+0	+0	+64	+128	+128
00000370	+128	+64	+0	+0	+0	+384	+768	+128

00000378	-512	+128	-256	-128	+0	+0	+0	+0
00000380	+0	+0	+0	+0	+0	-64	-128	+192
00000388	+512	+832	+128	-320	-768	-512	-256	-128
00000390	+0	+0	+0	+0	+0	+128	+256	+576
00000398	+896	+128	-640	-832	+0	+0	+0	+0
000003A0	+0	+64	+128	+64	+0	+0	+0	+0
000003A8	+0	+0	+0	+0	+0	+0	+0	+0
000003B0	+0	+0	+0	-64	-128	-192	-256	+320
000003B8	-128	+768	+640	+320	+0	+0	+0	+0
000003C0	+0	+0	+0	+0	+0	+0	+0	-128
000003C8	-256	-64	+128	+64	+0	+0	+0	+0
000003D0	+0	+0	+0	+0	+0	+0	+0	+0
000003D8	+0	-64	-128	+384	+896	-64	+0	+0
000003E0	+0	+64	-896	+0	+896	+448	+0	+0
000003E8	+0	+0	+0	+0	+0	+0	+0	+0
000003F0	+0	+0	+0	+0	+0	+0	+0	+384
000003F8	-256	-192	-128	-64	+0	+0	+0	+0
00000400	+0	+0	+0	+0	+0	+128	+256	-320
00000408	+128	+64	+0	+0	+0	+0	+0	+0
00000410	+0	+0	+0	+0	+0	+0	+0	+0
00000418	+0	+0	+0	+0	+0	+0	+0	+64
00000420	+128	-960	+0	+0	+0	-512	-1024	-128
00000428	+768	+768	+768	+640	+512	+448	+384	+384
00000430	+384	+448	+512	+192	-128	-192	-256	-128
00000438	+0	+0	+0	+0	+0	+0	+0	+0
00000440	+0	+0	+0	+0	+0	+0	+0	+0
00000448	+0	+0	+0	+0	+0	+0	+0	+0
00000450	+0	+0	+0	+0	+0	+0	+0	+0
00000458	+0	+0	+0	+192	+384	-320	+0	+0
00000460	+0	+0	+1024	+0	-1024	-512	+0	+64
00000468	+128	-64	-256	-384	-512	-448	-384	-256
00000470	-128	+0	+128	-128	-384	-512	-640	+192
00000478	+0	+0	+0	+0	+0	+0	+0	+0
00000480	+0	+0	+0	+0	+0	+0	+0	+0
00000488	+0	+0	+0	+0	+0	+0	+0	+0
00000490	+0	+0	+0	+64	+128	+64	+0	+64
00000498	+128	-64	-256	-960	-640	+128	-128	+0
000004A0	+128	+64	+0	+0	+0	+512	+1024	+448
000004A8	-128	-512	-896	-1024	-1152	-1024	-896	-576
000004B0	-256	+256	+768	+576	+384	+256	+128	-384
000004B8	+128	+64	+0	+0	+0	+0	+0	+0
000004C0	+0	+0	+0	+64	+128	+64	+0	+0
000004C8	+0	+0	+0	-64	-128	-128	-128	-64
000004D0	+0	+0	+0	+0	+0	+0	+0	+0
000004D8	+0	+0	+0	+384	-256	-128	+0	+0
000004E0	+0	+0	+0	+0	+0	+0	+0	+0
000004E8	+0	+0	+0	+0	+0	+0	+0	+0
000004F0	+0	+0	+0	+0	+0	+0	+0	+0
000004F8	+0	+0	+0	+0	+0	+0	+0	+0
00000500	+0	+0	+0	+0	+0	+0	+0	+0
00000508	+0	+0	+0	+64	+128	+64	+0	+0
00000510	+0	+0	+0	+0	+0	+0	+0	+0
00000518	+0	+0	+0	+0	+0	-128	-256	+384
00000520	+0	+0	+0	+0	+0	+0	+0	+0
00000528	+0	+0	+0	-64	-128	+0	+128	+64
00000530	+0	+0	+0	+0	+0	+384	-256	-128
00000538	+0	+0	+0	+0	+0	+0	+0	+0
00000540	-128	-64	+0	+384	-256	-64	+128	+128
00000548	+128	+0	-128	+384	-128	-64	+0	+0
00000550	+0	+0	+0	+0	+0	+0	+0	+0
00000558	+0	+0	+0	+0	+0	+0	+0	+0
00000560	+0	+0	+0	+0	+0	+0	+0	+0
00000568	+0	+0	+0	+0	+0	+0	+0	-64
00000570	-128	+0	+128	+0	-128	-64	+0	+0
00000578	+0	+0	+0	+0	+0	+0	+0	+0
00000580	+0	+64	+128	+192	+256	-128	+512	+448
00000588	+384	+128	-128	+384	-128	+448	+0	-64
00000590	-128	+0	+128	+64	+0	+0	+0	+0
00000598	+0	+0	+0	+0	+0	+0	+0	+0
000005A0	+0	+0	+0	+0	+0	+0	+0	+0

000005A8	+0	+0	+0	+0	+0	+0	+0	+0
000005B0	+0	+0	+0	+64	+128	+64	+0	+0
000005B8	+0	+0	+0	+64	+128	+64	+0	+0
000005C0	+0	+64	+128	-192	+512	-256	+0	+640
000005C8	-768	-640	-512	-1216	-896	-832	-768	-640
000005D0	-512	-192	+128	+64	+0	+0	+0	-64
000005D8	-128	-64	+0	+0	+0	+0	+0	+0
000005E0	+0	+0	+0	+0	+0	+0	+0	+0
000005E8	+0	+0	+0	+0	+0	+0	+0	+0
000005F0	+0	+0	+0	+0	+0	+64	+128	+64
000005F8	+0	+0	+0	+0	+0	+0	+0	+0
00000600	+128	+0	-1152	-1344	-512	+384	+1280	+768
00000608	+256	+256	+256	+128	+0	-64	-128	+64
00000610	+256	+448	+640	+576	-512	-768	+0	+0
00000618	+0	+0	+0	+0	+0	+0	+0	+0
00000620	+0	+0	+0	+0	+0	+0	+0	+0
00000628	+0	+0	+0	+0	+0	+0	+0	+0
00000630	+0	+0	+0	+0	+0	+0	+0	+0
00000638	+0	+0	+0	+0	+0	+0	+0	+0
00000640	-128	+64	+256	+64	-128	-128	-128	+0
00000648	+128	+64	+0	+0	+0	+0	+0	+0
00000650	+0	+0	+0	-64	-128	+192	+512	+128
00000658	-256	-192	-128	-64	+0	+384	-256	-64
00000660	+128	+0	-128	-64	+0	+0	+0	+0
00000668	+0	+0	+0	+0	+0	+0	+0	+0
00000670	+0	+64	+128	+64	+0	+0	+0	+0
00000678	+0	+0	+0	+0	+0	+0	+0	+0
00000680	+0	+0	+0	+0	+0	+0	+0	+0
00000688	+0	+0	+0	+0	+0	+0	+0	+0
00000690	+0	+0	+0	+0	+0	+0	+0	+0
00000698	+0	+0	+0	+0	+0	+64	+128	+0
000006A0	-128	+0	+128	+64	+0	+0	+0	+0
000006A8	+0	+0	+0	+0	+0	+0	+0	+0
000006B0	+0	+0	+0	+0	+0	+0	+0	+0
000006B8	+0	+0	+0	+0	+0	+0	+0	+0
000006C0	+0	+64	+128	+64	+0	+0	+0	+0
000006C8	+0	+0	+0	+0	+0	+0	+0	+0
000006D0	+0	+0	+0	+0	+0	+0	+0	+0
000006D8	+0	+0	+0	-64	-128	-128	-128	+0
000006E0	+128	-448	+0	+64	+128	+128	+128	+64
000006E8	+0	+64	+128	+64	+0	-64	-128	+128
000006F0	+384	+128	-128	-64	+0	+0	+0	+0
000006F8	+0	+0	+0	+0	+0	+0	+0	+0
00000700	+0	+0	+0	+0	+0	+0	+0	+0
00000708	+0	+0	+0	+0	+0	+0	+0	+0
00000710	+0	+0	+0	+0	+0	+0	+0	+0
00000718	+0	+0	+0	+0	+0	-64	-128	-64
00000720	+0	-512	+0	+64	+128	+128	+128	+128
00000728	+128	+64	+0	-128	-256	-320	-384	-192
00000730	+0	+0	+0	+0	+0	+0	+0	+0
00000738	+0	+0	+0	+0	+0	+0	+0	+0
00000740	+0	+0	+0	+0	+0	+0	+0	+0
00000748	+0	+0	+0	+0	+0	+0	+0	+0
00000750	+0	+0	+0	+0	+0	+0	+0	+0
00000758	+0	+0	+0	+0	+0	+0	+0	+0
00000760	+0	+0	+0	+0	+0	-128	+768	+0
00000768	+256	+640	+0	+0	+0	+0	+0	+0
00000770	+0	+0	+0	+0	+0	+0	+0	+0
00000778	+0	+0	+0	+0	+0	+0	+0	+0
00000780	+0	+0	+0	+0	+0	+0	+0	+0
00000788	+0	+0	+0	+0	+0	+0	+0	+0
00000790	+0	+0	+0	+0	+0	+0	+0	+0
00000798	+0	+0	+0	+0	+0	+0	+0	+0
000007A0	+0	+0	+0	+0	+0	+64	+128	-512
000007A8	-128	-64	+0	+0	+0	+0	+0	+0
000007B0	+0	+0	+0	+0	+0	+0	+0	+0
000007B8	+0	+0	+0	+0	+0	+0	+0	+0
000007C0	+0	+0	+0	+0	+0	+0	+0	+0
000007C8	+0	+0	+0	+0	+0	+0	+0	+0
000007D0	+0	+0	+0	+0	+0	+0	+0	+0

000007D8	+0	+0	+0	+0	+0	+0	+0	+0
000007E0	+0	+0	+0	+0	+0	+0	+0	+0
000007E8	+0	+0	+0	+0	+0	+0	+0	+0
000007F0	+0	+0	+0	+0	+0	+0	+0	+0
000007F8	+0	+0	+0	+0	+0	+0	+0	+0

The sample data for 12.4 fixed-point integers (RDP 8.1) is:

00000000	+0	+0	+0	+0	+0	+0	+0	+0
00000008	+0	+0	+0	+0	+0	+0	+0	+0
00000010	+0	+0	+0	+0	+0	+0	+0	+0
00000018	+0	+0	+0	+0	+0	+0	+0	+0
00000020	+0	+0	+0	+0	+0	+0	+0	+0
00000028	+0	+0	+0	+0	+0	+0	+0	+0
00000030	+0	+0	+0	+0	+0	+0	+0	+0
00000038	+0	+0	+0	+0	+0	+0	+0	+0
00000040	+0	+0	+0	+0	+0	+0	+0	+0
00000048	+0	+0	+0	+0	+0	+0	+0	+0
00000050	+0	+0	+0	+0	+0	+0	+0	+0
00000058	+0	+0	+0	+0	+0	+0	+0	+0
00000060	+0	+0	+0	+0	+0	+0	+0	+0
00000068	+0	+0	+0	+0	+0	+0	+0	+0
00000070	+0	+0	+0	+0	+0	+0	+0	+0
00000078	+0	+0	+0	+0	+0	+0	+0	+0
00000080	+0	+0	+0	+0	+0	+0	+0	+0
00000088	+0	+0	+0	+0	+0	+0	+0	+32
00000090	+64	+32	+0	-32	-64	-64	-64	-32
00000098	+0	+0	+0	-32	-64	-64	-64	+0
000000A0	+64	+32	+0	+0	+0	+0	+0	+0
000000A8	+0	+0	+0	+0	+0	+0	+0	+0
000000B0	+0	+0	+0	+0	+0	+0	+0	+0
000000B8	+0	+0	+0	+0	+0	+0	+0	+0
000000C0	-64	-64	-64	-64	-64	-32	+0	+0
000000C8	+0	+0	+0	+0	+0	-32	-64	-32
000000D0	+0	+0	+0	+0	+0	+0	+0	+0
000000D8	+0	+0	+0	+0	+0	+0	+0	+0
000000E0	+0	-32	-64	-32	+0	+0	+0	+0
000000E8	+0	+0	+0	+0	+0	+0	+0	+0
000000F0	+0	+0	+0	+0	+0	+0	+0	+0
000000F8	+0	+0	+0	+0	+0	+0	+0	+0
00000100	-64	-64	-64	-64	-64	-32	+0	+0
00000108	+0	+0	+0	+0	+0	+0	+0	+0
00000110	+0	+0	+0	+0	+0	+0	+0	+0
00000118	+0	+0	+0	+0	+0	+0	+0	+0
00000120	+0	+0	+0	+0	+0	+0	+0	+0
00000128	+0	+0	+0	+0	+0	+0	+0	+0
00000130	+0	+0	+0	+0	+0	+0	+0	+0
00000138	+0	+0	+0	+0	+0	+0	+0	+0
00000140	+0	+0	+0	+0	+0	+0	+0	+0
00000148	+0	+0	+0	+0	+0	+0	+0	+0
00000150	+0	+0	+0	+0	+0	+0	+0	+0
00000158	+0	+0	+0	+0	+0	+0	+0	+0
00000160	+0	+0	+0	+0	+0	+0	+0	-32
00000168	-64	+0	+64	+32	+0	+0	+0	+0
00000170	+0	+0	+0	+0	+0	+0	+0	-32
00000178	-64	-544	-512	+32	+64	+32	+0	+0
00000180	+0	+0	+0	+0	+0	+0	+0	+0
00000188	+0	+0	+0	-32	-64	-32	+0	+0
00000190	+0	+0	+0	+0	+0	+0	+0	+0
00000198	+0	+0	+0	+0	+0	+0	+0	+0
000001A0	+0	+0	+0	+0	+0	+0	+0	+0
000001A8	+0	+0	+0	-32	-64	-32	+0	+0
000001B0	+0	+32	+64	+32	+0	+0	+0	-288
000001B8	+448	+96	+256	+320	-128	-64	+0	+0
000001C0	+0	+0	+0	+0	+0	+0	+0	+0
000001C8	+0	+0	+0	-96	+320	-96	+0	+0
000001D0	+0	+0	+0	+0	+0	+0	+0	+0
000001D8	+0	+0	+0	+32	+64	+32	+0	+0

000001E0	+0	+64	+128	-160	+64	+32	+0	+0
000001E8	+0	+0	+0	+0	+0	+0	+0	+0
000001F0	+0	+0	+0	+0	+0	-160	+192	+480
000001F8	+256	-544	-320	-192	-64	-32	+0	+0
00000200	+0	+0	+0	+0	+0	+0	+0	+0
00000208	+0	+0	+0	+0	+0	+32	+64	+32
00000210	+0	+0	+0	+0	+0	+0	+0	+0
00000218	+0	+0	+0	+0	+0	+0	+0	+0
00000220	+0	+0	+0	+0	+0	-192	+128	+64
00000228	+0	+0	+0	+0	+0	+0	+0	+0
00000230	+0	+0	+0	+0	+0	+64	+128	-160
00000238	+64	+32	+0	+160	+320	+512	+192	-64
00000240	+0	+0	+0	+0	+0	+0	+0	+0
00000248	+0	+32	+64	-192	+64	+32	+0	+0
00000250	+0	+0	+0	+0	+0	+32	+64	+32
00000258	+0	+0	+0	+0	+0	+0	+0	+32
00000260	+64	+32	+0	+0	+0	+0	+0	+0
00000268	+0	+0	+0	+0	+0	+0	+0	+0
00000270	+0	+0	+0	+0	+0	+0	+0	+0
00000278	+0	+0	+0	-256	-512	-256	+0	+0
00000280	+0	+0	+0	+0	+0	+0	+0	+0
00000288	+0	+0	+0	+0	+0	+0	+0	+0
00000290	+0	+0	+0	+0	+0	+32	+64	-32
00000298	-128	-128	-128	+0	+128	+32	-64	-32
000002A0	+0	+0	+0	-32	-64	-32	+0	+0
000002A8	+0	+0	+0	+0	+0	+0	+0	+0
000002B0	+0	+0	+0	+0	+0	+0	+0	+0
000002B8	+0	+0	+0	+0	+0	+0	+0	+0
000002C0	+0	+0	+0	+0	+0	+0	+0	+0
000002C8	+0	-32	-64	-32	+0	+0	+0	+32
000002D0	+64	+64	+64	+128	+192	+128	+64	+32
000002D8	+0	+0	+0	+0	+0	+0	+0	+0
000002E0	+0	+0	+0	+0	+0	+0	+0	+0
000002E8	+0	+0	+0	+0	+0	+32	+64	+32
000002F0	+0	+0	+0	+0	+0	+0	+0	+0
000002F8	+0	+0	+0	+0	+0	+0	+0	+0
00000300	+0	+0	+0	+0	+0	+0	+0	+0
00000308	+0	-32	-64	-32	+0	-32	-64	-192
00000310	-320	-256	-192	-224	-256	-288	-320	-576
00000318	-320	+64	+448	+256	+64	+32	+0	+192
00000320	-128	-64	+0	+0	+0	+0	+0	+0
00000328	+0	+0	+0	+0	+0	+0	+0	-32
00000330	-64	-96	-128	-160	-192	-96	+0	+32
00000338	+64	+32	+0	+0	+0	+0	+0	+0
00000340	+0	+0	+0	+0	+0	+0	+0	-32
00000348	-64	+224	+0	+0	+0	+64	+128	+32
00000350	-64	-32	+0	-64	-128	-160	-192	-64
00000358	+64	+64	+64	-224	-512	-32	+448	+0
00000360	+64	-32	-128	+192	+0	+0	+0	+0
00000368	+0	+0	+0	+0	+0	+32	+64	+64
00000370	+64	+32	+0	+0	+0	+192	+384	+64
00000378	-256	+64	-128	-64	+0	+0	+0	+0
00000380	+0	+0	+0	+0	+0	-32	-64	+96
00000388	+256	+416	+64	-160	-384	-256	-128	-64
00000390	+0	+0	+0	+0	+0	+64	+128	+288
00000398	+448	+64	-320	-416	+0	+0	+0	+0
000003A0	+0	+32	+64	+32	+0	+0	+0	+0
000003A8	+0	+0	+0	+0	+0	+0	+0	+0
000003B0	+0	+0	+0	-32	-64	-96	-128	+160
000003B8	-64	+384	+320	+160	+0	+0	+0	+0
000003C0	+0	+0	+0	+0	+0	+0	+0	-64
000003C8	-128	-32	+64	+32	+0	+0	+0	+0
000003D0	+0	+0	+0	+0	+0	+0	+0	+0
000003D8	+0	-32	-64	+192	+448	-32	+0	+0
000003E0	+0	+32	-448	+0	+448	+224	+0	+0
000003E8	+0	+0	+0	+0	+0	+0	+0	+0
000003F0	+0	+0	+0	+0	+0	+0	+0	+192
000003F8	-128	-96	-64	-32	+0	+0	+0	+0
00000400	+0	+0	+0	+0	+0	+64	+128	-160
00000408	+64	+32	+0	+0	+0	+0	+0	+0

00000410	+0	+0	+0	+0	+0	+0	+0	+0
00000418	+0	+0	+0	+0	+0	+0	+0	+32
00000420	+64	-480	+0	+0	+0	-256	-512	-64
00000428	+384	+384	+384	+320	+256	+224	+192	+192
00000430	+192	+224	+256	+96	-64	-96	-128	-64
00000438	+0	+0	+0	+0	+0	+0	+0	+0
00000440	+0	+0	+0	+0	+0	+0	+0	+0
00000448	+0	+0	+0	+0	+0	+0	+0	+0
00000450	+0	+0	+0	+0	+0	+0	+0	+0
00000458	+0	+0	+0	+96	+192	-160	+0	+0
00000460	+0	+0	+512	+0	-512	-256	+0	+32
00000468	+64	-32	-128	-192	-256	-224	-192	-128
00000470	-64	+0	+64	-64	-192	-256	-320	+96
00000478	+0	+0	+0	+0	+0	+0	+0	+0
00000480	+0	+0	+0	+0	+0	+0	+0	+0
00000488	+0	+0	+0	+0	+0	+0	+0	+0
00000490	+0	+0	+0	+32	+64	+32	+0	+32
00000498	+64	-32	-128	-480	-320	+64	-64	+0
000004A0	+64	+32	+0	+0	+0	+256	+512	+224
000004A8	-64	-256	-448	-512	-576	-512	-448	-288
000004B0	-128	+128	+384	+288	+192	+128	+64	-192
000004B8	+64	+32	+0	+0	+0	+0	+0	+0
000004C0	+0	+0	+0	+32	+64	+32	+0	+0
000004C8	+0	+0	+0	-32	-64	-64	-64	-32
000004D0	+0	+0	+0	+0	+0	+0	+0	+0
000004D8	+0	+0	+0	+192	-128	-64	+0	+0
000004E0	+0	+0	+0	+0	+0	+0	+0	+0
000004E8	+0	+0	+0	+0	+0	+0	+0	+0
000004F0	+0	+0	+0	+0	+0	+0	+0	+0
000004F8	+0	+0	+0	+0	+0	+0	+0	+0
00000500	+0	+0	+0	+0	+0	+0	+0	+0
00000508	+0	+0	+0	+32	+64	+32	+0	+0
00000510	+0	+0	+0	+0	+0	+0	+0	+0
00000518	+0	+0	+0	+0	+0	-64	-128	+192
00000520	+0	+0	+0	+0	+0	+0	+0	+0
00000528	+0	+0	+0	-32	-64	+0	+64	+32
00000530	+0	+0	+0	+0	+0	+192	-128	-64
00000538	+0	+0	+0	+0	+0	+0	+0	+0
00000540	-64	-32	+0	+192	-128	-32	+64	+64
00000548	+64	+0	-64	+192	-64	-32	+0	+0
00000550	+0	+0	+0	+0	+0	+0	+0	+0
00000558	+0	+0	+0	+0	+0	+0	+0	+0
00000560	+0	+0	+0	+0	+0	+0	+0	+0
00000568	+0	+0	+0	+0	+0	+0	+0	-32
00000570	-64	+0	+64	+0	-64	-32	+0	+0
00000578	+0	+0	+0	+0	+0	+0	+0	+0
00000580	+0	+32	+64	+96	+128	-64	+256	+224
00000588	+192	+64	-64	+192	-64	+224	+0	-32
00000590	-64	+0	+64	+32	+0	+0	+0	+0
00000598	+0	+0	+0	+0	+0	+0	+0	+0
000005A0	+0	+0	+0	+0	+0	+0	+0	+0
000005A8	+0	+0	+0	+0	+0	+0	+0	+0
000005B0	+0	+0	+0	+32	+64	+32	+0	+0
000005B8	+0	+0	+0	+32	+64	+32	+0	+0
000005C0	+0	+32	+64	-96	+256	-128	+0	+320
000005C8	-384	-320	-256	-608	-448	-416	-384	-320
000005D0	-256	-96	+64	+32	+0	+0	+0	-32
000005D8	-64	-32	+0	+0	+0	+0	+0	+0
000005E0	+0	+0	+0	+0	+0	+0	+0	+0
000005E8	+0	+0	+0	+0	+0	+0	+0	+0
000005F0	+0	+0	+0	+0	+0	+32	+64	+32
000005F8	+0	+0	+0	+0	+0	+0	+0	+0
00000600	+64	+0	-576	-672	-256	+192	+640	+384
00000608	+128	+128	+128	+64	+0	-32	-64	+32
00000610	+128	+224	+320	+288	-256	-384	+0	+0
00000618	+0	+0	+0	+0	+0	+0	+0	+0
00000620	+0	+0	+0	+0	+0	+0	+0	+0
00000628	+0	+0	+0	+0	+0	+0	+0	+0
00000630	+0	+0	+0	+0	+0	+0	+0	+0
00000638	+0	+0	+0	+0	+0	+0	+0	+0

00000640	-64	+32	+128	+32	-64	-64	-64	+0
00000648	+64	+32	+0	+0	+0	+0	+0	+0
00000650	+0	+0	+0	-32	-64	+96	+256	+64
00000658	-128	-96	-64	-32	+0	+192	-128	-32
00000660	+64	+0	-64	-32	+0	+0	+0	+0
00000668	+0	+0	+0	+0	+0	+0	+0	+0
00000670	+0	+32	+64	+32	+0	+0	+0	+0
00000678	+0	+0	+0	+0	+0	+0	+0	+0
00000680	+0	+0	+0	+0	+0	+0	+0	+0
00000688	+0	+0	+0	+0	+0	+0	+0	+0
00000690	+0	+0	+0	+0	+0	+0	+0	+0
00000698	+0	+0	+0	+0	+0	+32	+64	+0
000006A0	-64	+0	+64	+32	+0	+0	+0	+0
000006A8	+0	+0	+0	+0	+0	+0	+0	+0
000006B0	+0	+0	+0	+0	+0	+0	+0	+0
000006B8	+0	+0	+0	+0	+0	+0	+0	+0
000006C0	+0	+32	+64	+32	+0	+0	+0	+0
000006C8	+0	+0	+0	+0	+0	+0	+0	+0
000006D0	+0	+0	+0	+0	+0	+0	+0	+0
000006D8	+0	+0	+0	-32	-64	-64	-64	+0
000006E0	+64	-224	+0	+32	+64	+64	+64	+32
000006E8	+0	+32	+64	+32	+0	-32	-64	+64
000006F0	+192	+64	-64	-32	+0	+0	+0	+0
000006F8	+0	+0	+0	+0	+0	+0	+0	+0
00000700	+0	+0	+0	+0	+0	+0	+0	+0
00000708	+0	+0	+0	+0	+0	+0	+0	+0
00000710	+0	+0	+0	+0	+0	+0	+0	+0
00000718	+0	+0	+0	+0	+0	-32	-64	-32
00000720	+0	-256	+0	+32	+64	+64	+64	+64
00000728	+64	+32	+0	-64	-128	-160	-192	-96
00000730	+0	+0	+0	+0	+0	+0	+0	+0
00000738	+0	+0	+0	+0	+0	+0	+0	+0
00000740	+0	+0	+0	+0	+0	+0	+0	+0
00000748	+0	+0	+0	+0	+0	+0	+0	+0
00000750	+0	+0	+0	+0	+0	+0	+0	+0
00000758	+0	+0	+0	+0	+0	+0	+0	+0
00000760	+0	+0	+0	+0	+0	-64	+384	+0
00000768	+128	+320	+0	+0	+0	+0	+0	+0
00000770	+0	+0	+0	+0	+0	+0	+0	+0
00000778	+0	+0	+0	+0	+0	+0	+0	+0
00000780	+0	+0	+0	+0	+0	+0	+0	+0
00000788	+0	+0	+0	+0	+0	+0	+0	+0
00000790	+0	+0	+0	+0	+0	+0	+0	+0
00000798	+0	+0	+0	+0	+0	+0	+0	+0
000007A0	+0	+0	+0	+0	+0	+32	+64	-256
000007A8	-64	-32	+0	+0	+0	+0	+0	+0
000007B0	+0	+0	+0	+0	+0	+0	+0	+0
000007B8	+0	+0	+0	+0	+0	+0	+0	+0
000007C0	+0	+0	+0	+0	+0	+0	+0	+0
000007C8	+0	+0	+0	+0	+0	+0	+0	+0
000007D0	+0	+0	+0	+0	+0	+0	+0	+0
000007D8	+0	+0	+0	+0	+0	+0	+0	+0
000007E0	+0	+0	+0	+0	+0	+0	+0	+0
000007E8	+0	+0	+0	+0	+0	+0	+0	+0
000007F0	+0	+0	+0	+0	+0	+0	+0	+0
000007F8	+0	+0	+0	+0	+0	+0	+0	+0

4.2.4.3.3.7 Inverse DWT-Y (L0 – H0)

The following is a dump of the LL0 sub-band, as shown in the figure illustrating three-level DWT decomposition in section 3.1.8.1.4.

The sample data for 11.5 fixed-point integers (RDP 7.1/8.0) is:

00000000	-32	+16	+64	+272	-32	-16	+0	-16
00000008	-32	-24	-16	-8	+0	-24	-48	-72
00000010	-96	-90	-84	-78	-72	-98	-124	-150

00000018	-176	-192	-208	-224	-240	-256	-272	-288
00000020	-304	-304	-304	-304	-304	-336	-368	-400
00000028	-432	-450	-468	-486	-504	-522	-540	-558
00000030	-576	-598	-620	-642	-664	-686	-708	-730
00000038	-752	-768	-784	-800	-816	-816	-816	-816
00000040	+68	+120	+172	+240	+53	+55	+57	+43
00000048	+30	+32	+34	+36	+38	+20	+2	-16
00000050	-34	-36	-38	-40	-42	-68	-94	-120
00000058	-146	-148	-151	-186	-220	-227	-233	-240
00000060	-247	-254	-261	-268	-275	-302	-329	-356
00000068	-384	-403	-423	-443	-463	-484	-506	-528
00000070	-550	-572	-594	-616	-639	-673	-707	-709
00000078	-712	-733	-754	-775	-796	-796	-796	-796
00000080	+168	+224	+281	+209	+138	+126	+115	+103
00000088	+92	+88	+84	+80	+76	+64	+52	+40
00000090	+28	+18	+8	-2	-12	-38	-64	-90
00000098	-116	-105	-95	-148	-201	-198	-195	-192
000000A0	-190	-204	-218	-232	-247	-269	-291	-313
000000A8	-336	-357	-379	-400	-422	-447	-473	-498
000000B0	-524	-546	-569	-591	-614	-660	-707	-689
000000B8	-672	-698	-724	-750	-776	-776	-776	-776
000000C0	+268	+312	+357	+273	+191	+181	+172	+162
000000C8	+154	+144	+134	+124	+114	+108	+102	+80
000000D0	+58	+56	+54	+52	+50	+24	-2	-44
000000D8	-86	-61	-38	-93	-149	-137	-124	-144
000000E0	-165	-170	-175	-196	-218	-235	-252	-269
000000E8	-288	-310	-334	-357	-381	-409	-439	-468
000000F0	-498	-520	-543	-565	-589	-647	-706	-668
000000F8	-632	-663	-694	-725	-756	-756	-756	-756
00000100	+368	+401	+434	+339	+244	+237	+230	+223
00000108	+216	+200	+184	+168	+152	+152	+152	+120
00000110	+88	+94	+100	+106	+112	+86	+60	+2
00000118	-56	-18	+19	-39	-98	-76	-55	-97
00000120	-140	-136	-133	-161	-190	-202	-215	-227
00000128	-240	-265	-290	-315	-340	-373	-406	-439
00000130	-472	-495	-518	-541	-564	-635	-706	-649
00000138	-592	-628	-664	-700	-736	-736	-736	-736
00000140	+404	+556	+454	+383	+313	+531	+239	+282
00000148	+326	+304	+282	+260	+238	+246	+254	+118
00000150	+238	+196	+154	+32	-90	-88	-86	+76
00000158	+238	+243	+247	+29	-191	-232	-272	-121
00000160	+29	-62	-153	-149	-145	-162	-180	-197
00000168	-216	-240	-265	-289	-315	-345	-376	-406
00000170	-438	-446	-456	-497	-539	-595	-653	-502
00000178	-608	-625	-642	-675	-708	-708	-708	-708
00000180	+440	+713	+475	+428	+382	+827	+249	+342
00000188	+436	+408	+380	+352	+324	+340	+356	-140
00000190	-124	+42	+208	+214	+220	+250	+280	+406
00000198	+532	+504	+476	+352	+229	+125	+22	-146
000001A0	-314	-244	-175	-138	-101	-123	-146	-169
000001A8	-192	-216	-241	-265	-290	-318	-347	-375
000001B0	-404	-399	-395	-454	-514	-557	-601	-356
000001B8	-624	-622	-620	-650	-680	-680	-680	-680
000001C0	+604	+677	+495	+457	+419	+770	+354	+386
000001C8	+418	+416	+414	+380	+346	+258	-342	-302
000001D0	-6	+288	+582	+604	+626	+588	+550	+688
000001D8	+826	+829	+833	+724	+616	+481	+348	+181
000001E0	+15	-139	-292	-175	-56	-83	-112	-139
000001E8	-168	-192	-216	-240	-265	-291	-317	-343
000001F0	-370	-351	-333	-411	-489	-486	-484	-402
000001F8	-576	-587	-598	-625	-652	-652	-652	-652
00000200	+1280	+1154	+1028	+998	+968	+970	+460	+430
00000208	+400	+424	+448	+408	+368	+432	-528	-208
00000210	+112	+534	+956	+994	+1032	+926	+820	+970
00000218	+1120	+1155	+1190	+1097	+1004	+839	+674	+509
00000220	+344	+223	+102	+45	-12	-45	-78	-111
00000228	-144	-168	-192	-216	-240	-264	-288	-312
00000230	-336	-304	-272	-368	-464	-416	-368	-448
00000238	-528	-552	-576	-600	-624	-624	-624	-624
00000240	+770	+671	+573	+554	+536	+629	+467	+464

00000248	+462	+492	+523	+490	+457	+281	-405	-101
00000250	+204	+599	+995	+1310	+1370	+1297	+1225	+1296
00000258	+1368	+1432	+1498	+1402	+1308	+1184	+1062	+874
00000260	+688	+586	+485	+303	+123	-82	-32	-76
00000268	-122	-174	-226	-199	-171	-193	-216	-238
00000270	-261	-314	-368	-325	-283	-360	-438	-451
00000278	-465	-515	-565	-583	-601	-617	-633	-633
00000280	+772	+701	+630	+623	+616	+545	+474	+499
00000288	+524	+561	+599	+572	+546	+131	-283	+6
00000290	+296	+665	+1034	+1627	+1708	+1669	+1630	+1623
00000298	+1616	+1711	+1806	+1709	+1612	+1531	+1450	+1241
000002A0	+1032	+950	+869	+563	+258	-120	+15	-42
000002A8	-100	-180	-261	-182	-103	-123	-144	-165
000002B0	-186	-325	-464	-283	-102	-305	-508	-455
000002B8	-402	-478	-554	-566	-578	-610	-642	-642
000002C0	+774	+730	+687	+675	+664	+620	+577	+581
000002C8	+586	+597	+610	+590	+571	-147	-96	+209
000002D0	+516	+794	+1073	+1575	+1822	+1976	+1875	+1869
000002D8	+1864	+1988	+2114	+2014	+1916	+1876	+1838	+1606
000002E0	+1376	+1266	+1156	+902	+137	-61	-3	-120
000002E8	-238	-122	-7	-69	-130	-164	-200	-219
000002F0	-239	-271	-304	-128	-209	-297	-386	-426
000002F8	-467	-937	-895	-549	-459	-667	-619	-619
00000300	+776	+760	+744	+728	+712	+696	+680	+664
00000308	+648	+635	+622	+609	+596	-425	+90	+413
00000310	+736	+924	+1112	+1524	+1936	+2284	+2120	+2116
00000318	+2112	+2267	+2422	+2321	+2220	+2223	+2226	+1973
00000320	+1720	+1582	+1444	+1242	+16	-2	-20	+58
00000328	+136	-65	-267	-212	-158	-207	-257	-274
00000330	-292	-218	-144	+26	-316	-290	-264	-142
00000338	-20	+2956	+2860	-788	-852	-980	-596	-596
00000340	+826	+807	+789	+770	+752	+749	+747	+744
00000348	+742	+677	+613	+516	+421	-285	+288	+573
00000350	+860	+1081	+1303	+1668	+2034	+2313	+2337	+2344
00000358	+2352	+2452	+2554	+2574	+2596	+2506	+2418	+2248
00000360	+2080	+1961	+1843	+925	+7	+40	+74	+748
00000368	+654	+453	+251	+48	-154	-107	-61	-111
00000370	-161	-28	+104	+45	-271	-274	-278	-842
00000378	+1411	+3007	+3323	+327	-1389	-1197	-493	-493
00000380	+876	+855	+834	+813	+792	+803	+814	+825
00000388	+836	+720	+605	+681	+758	+110	+487	+735
00000390	+984	+1239	+1494	+1813	+2132	+2343	+2554	+2573
00000398	+2592	+2639	+2686	+2829	+2972	+2791	+2610	+2525
000003A0	+2440	+2341	+2243	+608	-2	+83	+169	+1438
000003A8	+1172	+970	+768	+565	+363	+249	+135	+52
000003B0	-30	-95	-160	-193	-226	-259	-292	+763
000003B8	-742	+2290	+1738	-1118	-902	-902	-390	-390
000003C0	+926	+902	+879	+855	+832	+824	+817	+809
000003C8	+802	+763	+724	+397	+2375	+970	+589	+848
000003D0	+1108	+1396	+1685	+1941	+2198	+2468	+2739	+2785
000003D8	+2832	+2888	+2946	+3178	+2900	+3058	+2962	+2848
000003E0	+2736	+2896	+2546	-364	+309	+205	+871	+1760
000003E8	+1626	+1471	+1317	+1145	+975	+844	+714	+599
000003F0	+485	+351	+216	+146	+75	-355	+750	+2687
000003F8	+529	-1067	-615	-835	-799	-847	-383	-383
00000400	+976	+950	+924	+898	+872	+846	+820	+794
00000408	+768	+806	+844	+882	+1432	+2598	+692	+962
00000410	+1232	+1554	+1876	+2070	+2264	+2594	+2924	+2998
00000418	+3072	+3139	+3206	+3273	+2316	+3071	+3314	+3173
00000420	+3032	+2941	+1826	-57	+108	+73	+1574	+2083
00000428	+2080	+1973	+1866	+1727	+1588	+1441	+1294	+1147
00000430	+1000	+796	+592	+484	+376	+828	+256	+772
00000438	-248	-72	-408	+984	-184	-536	-376	-376
00000440	+1026	+997	+969	+941	+913	+888	+864	+840
00000448	+816	+762	+709	+768	+1339	+2269	+2176	+1411
00000450	+1414	+1677	+1941	+2188	+2436	+2730	+3023	+3157
00000458	+3291	+3349	+3409	+3420	+2152	+3000	+3594	+3403
00000460	+3213	+3233	+951	+12	+97	-303	+2883	+2755
00000468	+2373	+2312	+2252	+2143	+2036	+1861	+1687	+1544
00000470	+1403	+1254	+1106	+974	+842	+1229	+1105	+21

00000478	+217	+46	-381	+1912	+3181	+2765	+301	-723
00000480	+1076	+1045	+1015	+984	+954	+931	+909	+886
00000488	+864	+719	+575	+654	+1246	+1685	+3149	+1604
00000490	+1596	+1801	+2006	+2307	+2609	+2866	+3123	+3316
00000498	+3510	+3561	+3613	+3568	+1988	+2931	+3875	+3634
000004A0	+3394	+3527	+76	+81	+86	+859	+3168	+2917
000004A8	+2666	+2652	+2639	+2561	+2484	+2282	+2081	+1943
000004B0	+1806	+1713	+1621	+1464	+1308	+1119	+931	+550
000004B8	+170	-92	-354	+1560	+3986	+1970	-558	-558
000004C0	+1126	+1092	+1060	+1027	+995	+973	+953	+932
000004C8	+912	+899	+888	-340	+1249	+1756	+2521	+2421
000004D0	+1810	+2036	+2263	+2521	+2781	+3066	+3350	+3443
000004D8	+3537	+3612	+3688	+3476	+2496	+3021	+3803	+3833
000004E0	+3863	+2843	+33	+133	-21	+2099	+3197	+3061
000004E8	+2927	+2944	+2961	+2882	+2804	+2607	+2410	+2309
000004F0	+2209	+2139	+2071	+1842	+1614	+1328	+1044	+663
000004F8	+283	+10	-263	-488	-201	-201	-457	-457
00000500	+1176	+1141	+1106	+1071	+1036	+1017	+998	+979
00000508	+960	+825	+690	+203	+740	+1573	+1894	+3239
00000510	+2024	+2272	+2521	+2737	+2954	+3010	+3067	+3315
00000518	+3564	+3664	+3764	+3384	+3004	+3112	+3732	+3776
00000520	+3820	+1905	-10	+187	-128	+3341	+3226	+3207
00000528	+3188	+3236	+3284	+3204	+3124	+2932	+2740	+2676
00000530	+2612	+2567	+2522	+2221	+1920	+1539	+1158	+777
00000538	+396	+112	-172	-488	-292	-324	-356	-356
00000540	+1194	+1162	+1131	+1099	+1069	+1047	+1026	+972
00000548	+920	+969	+507	+380	+767	+1428	+1834	+2799
00000550	+2486	+2347	+2721	+2919	+3118	+3290	+3462	+3266
00000558	+3071	+3157	+3243	+3521	+3800	+3674	+3548	+3710
00000560	+3873	+874	+179	+91	+517	+3439	+3291	+3333
00000568	+3377	+3403	+3430	+3361	+3292	+3174	+3057	+3004
00000570	+2951	+2761	+2572	+2222	+1874	+1554	+1235	+883
00000578	+533	+220	-93	-470	-335	-319	-303	-303
00000580	+1212	+1184	+1157	+1129	+1102	+1078	+1055	+967
00000588	+880	+1114	+325	+559	+794	+1284	+1775	+2361
00000590	+2948	+2423	+2923	+3103	+3283	+3314	+3346	+3474
00000598	+3602	+3674	+3747	+3659	+3572	+3980	+3877	+3901
000005A0	+3926	-157	+368	+253	+1674	+3795	+3356	+3461
000005A8	+3566	+3571	+3577	+3518	+3460	+3417	+3375	+3332
000005B0	+3290	+2956	+2623	+2225	+1828	+1570	+1313	+991
000005B8	+670	+328	-14	-452	-378	-314	-250	-250
000005C0	+1230	+1206	+1182	+1158	+1135	+1109	+1083	+1025
000005C8	+968	+779	+78	+481	+885	+1284	+1939	+2466
000005D0	+3250	+2626	+2772	+3157	+3543	+3514	+3486	+3729
000005D8	+3717	+3775	+3834	+3780	+3728	+3934	+3885	+3915
000005E0	+2667	+92	+333	+173	+2831	+3701	+3549	+3587
000005E8	+3627	+3642	+3659	+3643	+3628	+3675	+3724	+3436
000005F0	+3149	+2847	+2545	+2275	+2006	+1730	+1454	+1114
000005F8	+775	+388	+1	-402	-293	-309	-325	-325
00000600	+1248	+1228	+1208	+1188	+1168	+1140	+1112	+1084
00000608	+1056	+700	+344	+660	+976	+1284	+2104	+2316
00000610	+3040	+2319	+2110	+2189	+2268	+2691	+3114	+3729
00000618	+3832	+3877	+3922	+3903	+3884	+3889	+3894	+3931
00000620	+1408	+341	+298	+95	+3988	+3609	+3742	+3715
00000628	+3688	+3715	+3742	+3769	+3796	+3679	+3562	+3285
00000630	+3008	+2738	+2468	+2326	+2184	+1890	+1596	+1238
00000638	+880	+448	+16	-352	-208	-304	-400	-400
00000640	+1296	+1284	+1272	+1260	+1249	+1165	+1081	+1093
00000648	+1106	+232	+382	+677	+971	+973	+1232	+834
00000650	+693	+537	+639	+564	+490	+563	+637	-106
00000658	+944	+2358	+3773	+3795	+4074	+3964	+3855	+4337
00000660	+212	+204	+197	+1341	+4023	+3813	+3860	+3810
00000668	+3762	+3766	+3771	+3776	+3781	+3603	+3427	+3201
00000670	+2977	+2838	+2699	+2400	+2101	+1982	+1607	+1280
00000678	+954	+545	-120	-321	-266	-314	-362	-362
00000680	+1344	+1340	+1337	+1333	+1330	+1190	+1051	+1103
00000688	+1156	+20	+933	+950	+967	+919	+872	+889
00000690	+906	+805	+705	+733	+761	+740	+720	+668
00000698	+616	+328	+40	+1640	+3752	+3784	+3816	+3208
000006A0	+40	+581	+97	+2589	+4058	+4018	+3979	+3907

000006A8	+3836	+3818	+3801	+3784	+3767	+3529	+3292	+3375
000006B0	+3458	+3706	+3954	+3754	+3555	+2843	+1619	+1067
000006B8	+516	+386	-256	-290	-324	-324	-324	-324
000006C0	+1392	+1364	+1337	+1309	+1283	+1247	+1212	+968
000006C8	+982	+1424	+1099	+1079	+1058	+1072	+1088	+815
000006D0	+799	+1056	+802	+772	+743	+645	+547	+769
000006D8	+736	+649	+563	+332	+102	+1939	+4033	+1982
000006E0	+444	+332	-36	+4076	+4093	+4047	+4001	+3955
000006E8	+3910	+3870	+3830	+3791	+3752	+3806	+3861	+3835
000006F0	+3811	+3678	+3545	+3380	+3216	+3639	+3806	+2341
000006F8	+1134	+1091	+24	-387	-286	-286	-286	-286
00000700	+1440	+1389	+1338	+1287	+1236	+1305	+1374	+1091
00000708	+1320	+1037	+1267	+1208	+1150	+715	+281	+486
00000710	+1204	+1564	+901	+1325	+1750	+1830	+1911	+1383
00000718	+344	+459	+574	+817	+548	+351	+666	+757
00000720	+336	+340	+856	+4028	+4128	+4076	+4024	+4004
00000728	+3984	+3922	+3861	+3799	+3738	+3828	+3919	+3785
00000730	+3652	+3394	+3137	+3007	+2878	+2900	+2923	+3105
00000738	+3800	+1284	+1328	+28	-248	-248	-248	-248
00000740	+1456	+1406	+1358	+1309	+1261	+1209	+1159	+1444
00000748	+1218	+1265	+33	-654	-1342	-977	-356	+394
00000750	+1401	+1753	+1338	+1738	+2140	+2575	+3009	+3524
00000758	+3784	+2536	+1033	+265	+522	+440	+615	+629
00000760	+388	+403	+2211	+4051	+4099	+4078	+4058	+3990
00000768	+3922	+3910	+3898	+3886	+3875	+3805	+3735	+3553
00000770	+3373	+3126	+2879	+2585	+2291	+2026	+1762	+2649
00000778	+3026	+2303	+2092	+665	-250	-250	-250	-250
00000780	+1472	+1425	+1379	+1332	+1286	+1371	+1457	+1030
00000788	-932	-1834	-1712	-1237	-763	-621	+33	+815
00000790	+1598	+1943	+1776	+2153	+2531	+2808	+3085	+3362
00000798	+3640	+4102	+4052	+3042	+496	+530	+564	+502
000007A0	+440	+211	+3055	+3818	+4070	+4081	+4093	+3976
000007A8	+3860	+3898	+3936	+3974	+4013	+3783	+3553	+3323
000007B0	+3094	+2858	+2623	+2420	+2217	+1921	+1626	+915
000007B8	+2764	+250	+296	+22	-252	-252	-252	-252
000007C0	+1488	+1443	+1399	+1371	+1343	+1308	+1530	-408
000007C8	-1834	-1589	-1089	-811	-535	-281	+485	+1171
000007D0	+1859	+2132	+2150	+2503	+2857	+3105	+3352	+3536
000007D8	+3720	+3875	+3775	+4298	+4054	+2123	+449	+502
000007E0	+556	+546	+26	+2113	+3945	+4115	+4031	+3946
000007E8	+3862	+3838	+3814	+3982	+3894	+3488	+3338	+3140
000007F0	+2943	+2622	+2302	+2030	+1758	+1495	+1234	+1259
000007F8	+774	-347	-188	-189	-190	-222	-254	-254
00000800	+1504	+1462	+1420	+1410	+1400	+1246	+1604	-1334
00000808	-1712	-1089	-978	-643	-308	+59	+938	+1529
00000810	+2120	+2322	+2524	+2854	+3184	+3402	+3620	+3710
00000818	+3800	+3905	+4010	+4019	+4028	+3973	+334	+503
00000820	+672	+627	+582	+409	+236	+2359	+3970	+3917
00000828	+3864	+3778	+3692	+3990	+3776	+3194	+3124	+2958
00000830	+2792	+2387	+1982	+1641	+1300	+1071	+842	+69
00000838	-192	-176	-160	-144	-128	-192	-256	-256
00000840	+1546	+1496	+1447	+1430	+1413	+1627	+1330	-2102
00000848	-1184	-819	-712	-395	-80	+405	+1148	+1713
00000850	+2280	+2486	+2692	+2995	+3297	+3467	+3638	+3712
00000858	+3787	+3915	+4045	+3917	+4047	+3097	+357	+655
00000860	+699	+198	+466	+381	+297	+376	+200	+1815
00000868	+3431	+3568	+3961	+4114	+3755	+3310	+3121	+2804
00000870	+2487	+2208	+1931	+1189	+447	+37	-116	-254
00000878	-136	-111	-86	-109	-132	-196	-260	-260
00000880	+1588	+1531	+1475	+1450	+1426	+1497	+33	-1591
00000888	-1168	-807	-446	-149	+148	+753	+1358	+1899
00000890	+2440	+2650	+2861	+3136	+3411	+3533	+3656	+3715
00000898	+3774	+3927	+4080	+3817	+4066	+2223	+380	+553
000008A0	+214	+3610	+350	+354	+358	+442	+526	+226
000008A8	-74	+286	+1158	+1678	+1686	+1634	+1582	+1114
000008B0	+646	+239	-168	-31	+107	-228	-51	-65
000008B8	-80	-46	-12	-74	-136	-200	-264	-264
000008C0	+1630	+1565	+1502	+1470	+1439	+1590	-817	-1399
000008C8	-960	-633	-308	-14	+280	+875	+1472	+1971
000008D0	+2472	+2718	+2965	+3229	+3492	+3582	+3674	+3701

000008D8	+3729	+3793	+3859	+4147	+4181	+707	+563	+417
000008E0	+1297	+3917	+4234	+2198	+163	+267	+372	+348
000008E8	+325	+108	+147	+186	-31	+38	+107	+96
000008F0	+85	+61	+38	-162	-106	-126	+111	+876
000008F8	-152	-93	-34	-87	-140	-204	-268	-268
00000900	+1672	+1601	+1530	+1491	+1452	+1685	-1666	-1209
00000908	-752	-461	-170	+121	+412	+999	+1586	+2045
00000910	+2504	+2787	+3071	+3322	+3574	+3633	+3693	+3688
00000918	+3684	+3661	+3638	+3711	+2760	+473	+746	+283
00000920	+2380	+4225	+4022	+4043	+4064	+2141	+218	+215
00000928	+212	+186	+160	+230	+300	+234	+168	+102
00000930	+36	-117	-269	+218	+1218	+2025	+2833	+1048
00000938	-224	-140	-56	-100	-144	-208	-272	-272
00000940	+1626	+1607	+1589	+1458	+1585	+692	-1479	-1107
00000948	-736	-451	-168	+115	+400	+805	+1468	+1937
00000950	+2408	+2703	+2999	+3327	+3655	+3568	+3482	+3620
00000958	+3759	+3439	+3121	+1601	+851	+819	+533	+437
00000960	+3415	+4252	+4066	+4055	+4045	+4084	+4124	+2995
00000968	+1867	+1068	+269	+62	-145	-38	+69	+704
00000970	+1339	+2183	+3028	+2816	+2861	+2953	+2790	-349
00000978	+96	-19	-134	-137	-140	-204	-268	-268
00000980	+1580	+1614	+1649	+1427	+1718	-300	-1293	-1006
00000988	-720	-443	-166	+111	+388	+613	+1350	+1831
00000990	+2312	+2620	+2928	+3076	+3225	+3249	+3273	+3297
00000998	+3322	+3475	+3628	+3333	+1502	+655	+832	+593
000009A0	+3938	+4024	+4110	+4068	+4026	+3980	+3934	+3984
000009A8	+4034	+3998	+3962	+3990	+4018	+3786	+3554	+3610
000009B0	+3666	+3459	+3253	+3111	+2969	+2858	+2236	-210
000009B8	-96	-154	-212	-174	-136	-200	-264	-264
000009C0	+1662	+1653	+1644	+1619	+1851	-988	-1266	-985
000009C8	-704	-401	-100	+9	+120	+403	+944	+1579
000009D0	+2216	+2504	+2793	+2873	+2954	+2976	+2999	+3085
000009D8	+3173	+3237	+3303	+3575	+521	+553	+587	+1771
000009E0	+3981	+4019	+4058	+4032	+4007	+3971	+3936	+3948
000009E8	+3961	+3920	+3879	+3806	+3989	+3866	+3743	+3636
000009F0	+3529	+3375	+3222	+3069	+2916	+2907	+1362	-119
000009F8	-64	-113	-162	-147	-132	-196	-260	-260
00000A00	+1744	+1692	+1640	+1556	+1472	-1932	-1240	-964
00000A08	-688	-361	-34	+165	+364	+707	+1050	+1585
00000A10	+2120	+2389	+2658	+2671	+2684	+2705	+2726	+2875
00000A18	+3024	+3001	+2978	+2283	+564	+965	+342	+2951
00000A20	+4024	+4015	+4006	+3997	+3988	+3963	+3938	+3913
00000A28	+3888	+3842	+3796	+3622	+3960	+3946	+3932	+3662
00000A30	+3392	+3292	+3192	+3028	+2864	+2956	+488	-28
00000A38	-32	-72	-112	-120	-128	-192	-256	-256
00000A40	+1834	+1635	+1692	+1718	+208	-1663	-1229	-924
00000A48	-619	-283	+50	+256	+719	+705	+948	+1126
00000A50	+1562	+1845	+2129	+2236	+2344	+2447	+2551	+2654
00000A58	+2759	+2738	+2719	+1562	+663	+623	+327	+4207
00000A60	+3992	+4012	+4034	+3990	+3948	+3922	+3898	+3872
00000A68	+3848	+3774	+3701	+3484	+3523	+3726	+3929	+3812
00000A70	+3695	+3604	+3513	+3407	+3300	+3350	-440	-231
00000A78	-22	-48	-74	-100	-126	-174	-222	-222
00000A80	+1924	+1578	+1745	+1880	-1057	-1394	-1219	-884
00000A88	-550	-207	+135	+93	+563	+449	+847	+669
00000A90	+1004	+1302	+1600	+1802	+2005	+2191	+2377	+2435
00000A98	+2494	+2477	+2460	+843	+763	+794	+1337	+3928
00000AA0	+3960	+4011	+4062	+3985	+3908	+3883	+3858	+3833
00000AA8	+3808	+3707	+3607	+3603	+3599	+3506	+3414	+3706
00000AB0	+3998	+3916	+3835	+3786	+3737	+2208	-345	+78
00000AB8	-12	-24	-36	-80	-124	-156	-188	-188
00000AC0	+1598	+1585	+1829	+2154	-1873	-1413	-1208	-556
00000AC8	-417	-514	-102	+440	+214	+191	+681	+435
00000AD0	+702	+870	+1039	+1224	+1409	+1709	+2010	+2039
00000AD8	+2069	+2086	+1849	+795	+766	+596	+2474	+3953
00000AE0	+3896	+3928	+3962	+3914	+3868	+3842	+3818	+3792
00000AE8	+3768	+3687	+3608	+3577	+3546	+3462	+3379	+3312
00000AF0	+3245	+3364	+3484	+3189	+2893	+858	-154	+35
00000AF8	-34	-48	-62	-108	-154	-154	-154	-154
00000B00	+1784	+1849	+1915	+892	-1666	-1176	-1711	-741

00000B08	-796	-822	+175	-748	+378	+191	+517	+202
00000B10	+400	+439	+479	+646	+814	+1229	+1645	+1644
00000B18	+1644	+1697	+1239	+748	+770	+399	+3613	+3978
00000B20	+3832	+3847	+3862	+3845	+3828	+3803	+3778	+3753
00000B28	+3728	+3669	+3611	+3552	+3494	+3419	+3345	+3174
00000B30	+3004	+2813	+2623	+2592	+2562	-237	+37	-9
00000B38	-56	-72	-88	-136	-184	-152	-120	-120
00000B40	+1802	+1900	+2255	-286	-1290	-1129	-712	-391
00000B48	-327	-385	-445	+201	-178	+436	+27	-45
00000B50	-118	+204	+270	+384	+498	+685	+874	+998
00000B58	+1123	+1252	+1127	+794	+717	+1161	+3654	+3843
00000B60	+3776	+3788	+3802	+3782	+3764	+3616	+3726	+3690
00000B68	+3656	+3595	+3536	+3476	+3417	+3341	+3265	+3078
00000B70	+2891	+2687	+2484	+2617	+1982	-28	+8	+14
00000B78	+18	-18	-54	+6	+66	-30	-126	-126
00000B80	+1820	+1696	+2084	-2232	-1939	-570	-1762	-1834
00000B88	-1394	-461	-552	-387	-223	-1110	-462	-37
00000B90	-124	-31	-451	-134	+183	+143	+104	+353
00000B98	+602	+809	+1017	+841	+665	+1924	+3696	+3708
00000BA0	+3720	+3731	+3742	+3721	+3700	+3431	+3674	+3629
00000BA8	+3584	+3523	+3462	+3401	+3341	+3264	+3187	+2982
00000BB0	+2778	+2562	+2346	+2386	+891	-77	-20	+36
00000BB8	+92	+36	-20	-108	-196	-164	-132	-132
00000BC0	+1710	+1955	+1177	-2833	-955	-2075	-2172	-364
00000BC8	-1885	-1352	-820	-1599	-843	-1249	-887	-652
00000BD0	-674	-554	-435	-636	-325	-304	-282	-101
00000BD8	-175	+493	+906	+871	+580	+2767	+3674	+3653
00000BE0	+3632	+3656	+3682	+3626	+3572	+3436	+3558	+3534
00000BE8	+3512	+3449	+3388	+3325	+3264	+3186	+3108	+2902
00000BF0	+2697	+2500	+2304	+2219	+343	+179	+271	+154
00000BF8	+38	-6	-50	-110	-170	-154	-138	-138
00000C00	+1600	+1959	-242	-2667	-2020	-2557	-2582	-1455
00000C08	+696	+316	+960	+2052	+2120	+1940	+1760	+1292
00000C10	+824	-310	-932	-1394	-832	-750	-668	-298
00000C18	-440	+434	+796	+902	+496	+3610	+3652	+3598
00000C20	+3544	+3583	+3622	+3533	+3444	+3443	+3442	+3441
00000C28	+3440	+3377	+3314	+3251	+3188	+3109	+3030	+2823
00000C30	+2616	+2439	+2262	+2053	-204	+179	+50	+17
00000C38	-16	-48	-80	-112	-144	-144	-144	-144
00000C40	+1956	+1852	-2091	-3025	-1145	+322	+2045	+1672
00000C48	+1555	+1328	+1614	+1916	+1706	+1622	+1282	+1502
00000C50	+1466	+1301	+1393	+940	-792	-1548	-768	-820
00000C58	-617	+926	+934	+909	+1397	+3323	+3456	+3446
00000C60	+3436	+3393	+3351	+3388	+3426	+3373	+3321	+3444
00000C68	+3313	+3264	+3217	+3153	+3090	+2997	+2906	+2686
00000C70	+2467	+2290	+2115	+1282	-61	+136	+79	+36
00000C78	-5	-37	-69	-101	-133	-133	-133	-133
00000C80	+1800	+1746	+669	+1992	+1779	+1665	+1552	+1727
00000C88	+1390	+1317	+1245	+1269	+1293	+1560	+1316	+1456
00000C90	+1084	+1121	+1158	+971	+1297	+726	-869	-1343
00000C98	-794	+1419	+1072	+917	+2299	+3036	+3261	+3294
00000CA0	+3328	+3204	+3080	+3244	+3409	+3305	+3201	+3449
00000CA8	+3186	+3153	+3121	+3056	+2992	+2887	+2783	+2550
00000CB0	+2318	+2143	+1968	+513	+82	+95	+108	+57
00000CB8	+6	-26	-58	-90	-122	-122	-122	-122
00000CC0	+1516	+1832	+1636	+1905	+1406	+1344	+1283	+1589
00000CC8	+1641	+1465	+1291	+1277	+1263	+1386	+1254	+1314
00000CD0	+1118	+1116	+1115	+905	+953	+1160	+1111	+118
00000CD8	-363	+807	+698	+700	+2240	+3325	+2361	+2934
00000CE0	+3252	+2998	+2745	+2924	+3103	+3155	+2952	+3277
00000CE8	+3091	+3057	+3024	+2959	+2894	+2776	+2659	+2414
00000CF0	+2169	+2074	+1981	+255	+65	+68	+73	+44
00000CF8	+17	-15	-47	-79	-111	-111	-111	-111
00000D00	+1744	+1662	+1581	+1563	+1546	+1536	+1527	+1453
00000D08	+1380	+1359	+1339	+1286	+1234	+1213	+1193	+1172
00000D10	+1152	+1112	+1073	+1097	+1122	+826	+1043	+1067
00000D18	+1092	+964	+837	+741	+2182	+2078	+2487	+2831
00000D20	+2664	+2793	+2923	+2860	+2798	+3007	+2705	+3106
00000D28	+2996	+2962	+2928	+2862	+2796	+2666	+2536	+2278
00000D30	+2020	+1751	+1482	-259	+48	+43	+38	+33

00000D38	+28	-4	-36	-68	-100	-100	-100	-100
00000D40	+1684	+1640	+1596	+1584	+1573	+1543	+1513	+1451
00000D48	+1391	+1359	+1329	+1282	+1236	+1213	+1190	+1168
00000D50	+1146	+1107	+1069	+1063	+1058	+920	+1038	+996
00000D58	+955	+924	+894	+880	+1635	+1679	+2235	+2439
00000D60	+2132	+2451	+2771	+2580	+2644	+2713	+2528	+2742
00000D68	+2701	+2828	+2699	+2570	+2442	+2383	+2324	+2105
00000D70	+1887	+1732	+811	-79	+55	+62	+71	+46
00000D78	+23	-7	-37	-67	-97	-113	-129	-129
00000D80	+1624	+1618	+1612	+1606	+1601	+1551	+1501	+1451
00000D88	+1402	+1361	+1320	+1279	+1239	+1214	+1189	+1164
00000D90	+1140	+1103	+1067	+1031	+995	+1014	+1034	+926
00000D98	+818	+885	+953	+1021	+1089	+1024	+1472	+2048
00000DA0	+2112	+2110	+2109	+2044	+2491	+2421	+2352	+2379
00000DA8	+2406	+2694	+2471	+2279	+2088	+2100	+2113	+1933
00000DB0	+1754	+1715	+140	+101	+62	+83	+104	+61
00000DB8	+18	-10	-38	-66	-94	-126	-158	-158
00000DC0	+1724	+1788	+1852	+1692	+1532	+1494	+1456	+1418
00000DC8	+1381	+1345	+1311	+1275	+1241	+1214	+1187	+1160
00000DD0	+1134	+1098	+1064	+1029	+995	+996	+998	+935
00000DD8	+873	+877	+883	+792	+702	+657	+1125	+1832
00000DE0	+2284	+1193	+1638	+1796	+2209	+2320	+2176	+2239
00000DE8	+2047	+2560	+2562	+1891	+1734	+1673	+1613	+1744
00000DF0	+1621	+1152	-83	-8	+69	+70	+73	+42
00000DF8	+13	-13	-39	-65	-91	-139	-187	-187
00000E00	+1824	+1702	+1580	+1522	+1464	+1438	+1412	+1386
00000E08	+1360	+1331	+1302	+1273	+1244	+1215	+1186	+1157
00000E10	+1128	+1095	+1062	+1029	+996	+979	+962	+945
00000E18	+928	+871	+814	+821	+828	+803	+1290	+1617
00000E20	+1944	+2068	+1168	+1292	+1416	+1708	+1488	+1844
00000E28	+1688	+2171	+2142	+1249	+1380	+1503	+1626	+1045
00000E30	-48	+79	+206	+141	+76	+59	+42	+25
00000E38	+8	-16	-40	-64	-88	-152	-216	-216
00000E40	+1688	+1615	+1542	+1501	+1460	+1429	+1398	+1367
00000E48	+1336	+1309	+1284	+1257	+1232	+1205	+1180	+1153
00000E50	+1128	+1092	+1058	+1022	+988	+968	+950	+930
00000E58	+912	+861	+812	+793	+776	+595	+672	+971
00000E60	+1272	+330	+924	+1038	+1152	+1298	+1444	+1910
00000E68	+1608	+1531	+1200	+515	+344	+259	+176	+251
00000E70	+72	+122	+174	+128	+84	+64	+46	+26
00000E78	+8	-18	-44	-70	-96	-144	-192	-192
00000E80	+1552	+1528	+1504	+1480	+1456	+1420	+1384	+1348
00000E88	+1312	+1289	+1266	+1243	+1220	+1197	+1174	+1151
00000E90	+1128	+1091	+1054	+1017	+980	+959	+938	+917
00000E98	+896	+853	+810	+767	+724	+645	+566	+583
00000EA0	+600	+640	+680	+528	+376	+376	+888	+1464
00000EA8	+1016	+637	+258	+295	+332	+297	+262	+227
00000EB0	+192	+167	+142	+117	+92	+71	+50	+29
00000EB8	+8	-20	-48	-76	-104	-136	-168	-168
00000EC0	+1544	+1521	+1498	+1475	+1452	+1411	+1370	+1329
00000EC8	+1288	+1267	+1248	+1227	+1208	+1187	+1168	+1147
00000ED0	+1128	+1088	+1050	+1010	+972	+948	+926	+902
00000ED8	+880	+843	+808	+771	+736	+677	+620	+609
00000EE0	+600	+614	+628	+546	+464	+238	+2060	+1690
00000EE8	+1576	+1709	+308	+313	+320	+285	+252	+217
00000EF0	+184	+162	+142	+120	+100	+76	+54	+30
00000EF8	+8	-22	-52	-82	-112	-128	-144	-144
00000F00	+1536	+1514	+1492	+1470	+1448	+1402	+1356	+1310
00000F08	+1264	+1247	+1230	+1213	+1196	+1179	+1162	+1145
00000F10	+1128	+1087	+1046	+1005	+964	+939	+914	+889
00000F18	+864	+835	+806	+777	+748	+711	+674	+637
00000F20	+600	+588	+576	+564	+552	+612	+160	+1916
00000F28	+1112	+223	+358	+333	+308	+275	+242	+209
00000F30	+176	+159	+142	+125	+108	+83	+58	+33
00000F38	+8	-24	-56	-88	-120	-120	-120	-120
00000F40	+1536	+1514	+1492	+1470	+1448	+1402	+1356	+1310
00000F48	+1264	+1246	+1230	+1212	+1196	+1178	+1162	+1144
00000F50	+1128	+1086	+1046	+1004	+964	+938	+914	+888
00000F58	+864	+834	+806	+776	+748	+710	+674	+636
00000F60	+600	+588	+576	+564	+552	+644	+480	+108

00000F68	+504	+158	+326	+316	+308	+274	+242	+208
00000F70	+176	+158	+142	+124	+108	+82	+58	+32
00000F78	+8	-24	-56	-88	-120	-120	-120	-120
00000F80	+1536	+1514	+1492	+1470	+1448	+1402	+1356	+1310
00000F88	+1264	+1247	+1230	+1213	+1196	+1179	+1162	+1145
00000F90	+1128	+1087	+1046	+1005	+964	+939	+914	+889
00000F98	+864	+835	+806	+777	+748	+711	+674	+637
00000FA0	+600	+588	+576	+564	+552	+420	+288	+348
00000FA8	+408	+351	+294	+301	+308	+275	+242	+209
00000FB0	+176	+159	+142	+125	+108	+83	+58	+33
00000FB8	+8	-24	-56	-88	-120	-120	-120	-120
00000FC0	+1536	+1514	+1492	+1470	+1448	+1402	+1356	+1310
00000FC8	+1264	+1246	+1230	+1212	+1196	+1178	+1162	+1144
00000FD0	+1128	+1086	+1046	+1004	+964	+938	+914	+888
00000FD8	+864	+834	+806	+776	+748	+710	+674	+636
00000FE0	+600	+588	+576	+564	+552	+420	+288	+348
00000FE8	+408	+350	+294	+300	+308	+274	+242	+208
00000FF0	+176	+158	+142	+124	+108	+82	+58	+32
00000FF8	+8	-24	-56	-88	-120	-120	-120	-120

The sample data for 12.4 fixed-point integers (RDP 8.1) is:

00000000	-16	+8	+32	+136	-16	-8	+0	-8
00000008	-16	-12	-8	-4	+0	-12	-24	-36
00000010	-48	-45	-42	-39	-36	-49	-62	-75
00000018	-88	-96	-104	-112	-120	-128	-136	-144
00000020	-152	-152	-152	-152	-152	-168	-184	-200
00000028	-216	-225	-234	-243	-252	-261	-270	-279
00000030	-288	-299	-310	-321	-332	-343	-354	-365
00000038	-376	-384	-392	-400	-408	-408	-408	-408
00000040	+34	+60	+86	+120	+26	+27	+28	+21
00000048	+15	+16	+17	+18	+19	+10	+1	-8
00000050	-17	-18	-19	-20	-21	-34	-47	-60
00000058	-73	-74	-75	-93	-110	-113	-116	-120
00000060	-123	-127	-130	-134	-137	-151	-164	-178
00000068	-192	-201	-211	-221	-231	-242	-253	-264
00000070	-275	-286	-297	-308	-319	-336	-353	-354
00000078	-356	-366	-377	-387	-398	-398	-398	-398
00000080	+84	+112	+140	+104	+69	+63	+57	+51
00000088	+46	+44	+42	+40	+38	+32	+26	+20
00000090	+14	+9	+4	-1	-6	-19	-32	-45
00000098	-58	-52	-47	-74	-100	-99	-97	-96
000000A0	-95	-102	-109	-116	-123	-134	-145	-156
000000A8	-168	-178	-189	-200	-211	-223	-236	-249
000000B0	-262	-273	-284	-295	-307	-330	-353	-344
000000B8	-336	-349	-362	-375	-388	-388	-388	-388
000000C0	+134	+156	+178	+136	+95	+90	+86	+81
000000C8	+77	+72	+67	+62	+57	+54	+51	+40
000000D0	+29	+28	+27	+26	+25	+12	-1	-22
000000D8	-43	-30	-19	-46	-74	-68	-62	-72
000000E0	-82	-85	-87	-98	-109	-117	-126	-134
000000E8	-144	-155	-167	-178	-190	-204	-219	-234
000000F0	-249	-260	-271	-282	-294	-323	-353	-334
000000F8	-316	-331	-347	-362	-378	-378	-378	-378
00000100	+184	+200	+217	+169	+122	+118	+115	+111
00000108	+108	+100	+92	+84	+76	+76	+76	+60
00000110	+44	+47	+50	+53	+56	+43	+30	+1
00000118	-28	-9	+9	-19	-49	-38	-27	-48
00000120	-70	-68	-66	-80	-95	-101	-107	-113
00000128	-120	-132	-145	-157	-170	-186	-203	-219
00000130	-236	-247	-259	-270	-282	-317	-353	-324
00000138	-296	-314	-332	-350	-368	-368	-368	-368
00000140	+202	+278	+227	+191	+156	+265	+119	+141
00000148	+163	+152	+141	+130	+119	+123	+127	+59
00000150	+119	+98	+77	+16	-45	-44	-43	+38
00000158	+119	+121	+123	+14	-95	-116	-136	-60
00000160	+14	-31	-76	-74	-72	-81	-90	-98
00000168	-108	-120	-132	-144	-157	-172	-188	-203

00000170	-219	-223	-228	-248	-269	-297	-326	-251
00000178	-304	-312	-321	-337	-354	-354	-354	-354
00000180	+220	+356	+237	+214	+191	+413	+124	+171
00000188	+218	+204	+190	+176	+162	+170	+178	-70
00000190	-62	+21	+104	+107	+110	+125	+140	+203
00000198	+266	+252	+238	+176	+114	+62	+11	-73
000001A0	-157	-122	-87	-69	-50	-61	-73	-84
000001A8	-96	-108	-120	-132	-145	-159	-173	-187
000001B0	-202	-199	-197	-227	-257	-278	-300	-178
000001B8	-312	-311	-310	-325	-340	-340	-340	-340
000001C0	+302	+338	+247	+228	+209	+385	+177	+193
000001C8	+209	+208	+207	+190	+173	+129	-171	-151
000001D0	-3	+144	+291	+302	+313	+294	+275	+344
000001D8	+413	+414	+416	+362	+308	+240	+174	+90
000001E0	+7	-69	-146	-87	-28	-41	-56	-69
000001E8	-84	-96	-108	-120	-132	-145	-158	-171
000001F0	-185	-175	-166	-205	-244	-243	-242	-201
000001F8	-288	-293	-299	-312	-326	-326	-326	-326
00000200	+640	+577	+514	+499	+484	+485	+230	+215
00000208	+200	+212	+224	+204	+184	+216	-264	-104
00000210	+56	+267	+478	+497	+516	+463	+410	+485
00000218	+560	+577	+595	+548	+502	+419	+337	+254
00000220	+172	+111	+51	+22	-6	-22	-39	-55
00000228	-72	-84	-96	-108	-120	-132	-144	-156
00000230	-168	-152	-136	-184	-232	-208	-184	-224
00000238	-264	-276	-288	-300	-312	-312	-312	-312
00000240	+385	+335	+286	+277	+268	+314	+233	+232
00000248	+231	+246	+261	+245	+228	+140	-202	-50
00000250	+102	+299	+497	+655	+685	+648	+612	+648
00000258	+684	+716	+749	+701	+654	+592	+531	+437
00000260	+344	+293	+242	+151	+61	-41	-16	-38
00000268	-61	-87	-113	-99	-85	-96	-108	-119
00000270	-130	-157	-184	-162	-141	-180	-219	-225
00000278	-232	-257	-282	-291	-300	-308	-316	-316
00000280	+386	+350	+315	+311	+308	+272	+237	+249
00000288	+262	+280	+299	+286	+273	+65	-141	+3
00000290	+148	+332	+517	+813	+854	+834	+815	+811
00000298	+808	+855	+903	+854	+806	+765	+725	+620
000002A0	+516	+475	+434	+281	+129	-60	+7	-21
000002A8	-50	-90	-130	-91	-51	-61	-72	-82
000002B0	-93	-162	-232	-141	-51	-152	-254	-227
000002B8	-201	-239	-277	-283	-289	-305	-321	-321
000002C0	+387	+365	+343	+337	+332	+310	+288	+290
000002C8	+293	+298	+305	+295	+285	-73	-48	+104
000002D0	+258	+397	+536	+787	+911	+988	+937	+934
000002D8	+932	+994	+1057	+1007	+958	+938	+919	+803
000002E0	+688	+633	+578	+451	+68	-30	-1	-60
000002E8	-119	-61	-3	-34	-65	-82	-100	-109
000002F0	-119	-135	-152	-64	-104	-148	-193	-213
000002F8	-233	-468	-447	-274	-229	-333	-309	-309
00000300	+388	+380	+372	+364	+356	+348	+340	+332
00000308	+324	+317	+311	+304	+298	-212	+45	+206
00000310	+368	+462	+556	+762	+968	+1142	+1060	+1058
00000318	+1056	+1133	+1211	+1160	+1110	+1111	+1113	+986
00000320	+860	+791	+722	+621	+8	-1	-10	+29
00000328	+68	-32	-133	-106	-79	-103	-128	-137
00000330	-146	-109	-72	+13	-158	-145	-132	-71
00000338	-10	+1478	+1430	-394	-426	-490	-298	-298
00000340	+413	+403	+394	+385	+376	+374	+373	+372
00000348	+371	+338	+306	+258	+210	-142	+144	+286
00000350	+430	+540	+651	+834	+1017	+1156	+1168	+1172
00000358	+1176	+1226	+1277	+1287	+1298	+1253	+1209	+1124
00000360	+1040	+980	+921	+462	+3	+20	+37	+374
00000368	+327	+226	+125	+24	-77	-53	-30	-55
00000370	-80	-14	+52	+22	-135	-137	-139	-421
00000378	+705	+1503	+1661	+163	-694	-598	-246	-246
00000380	+438	+427	+417	+406	+396	+401	+407	+412
00000388	+418	+360	+302	+340	+379	+55	+243	+367
00000390	+492	+619	+747	+906	+1066	+1171	+1277	+1286
00000398	+1296	+1319	+1343	+1414	+1486	+1395	+1305	+1262

000003A0	+1220	+1170	+1121	+304	-1	+41	+84	+719
000003A8	+586	+485	+384	+282	+181	+124	+67	+26
000003B0	-15	-47	-80	-96	-113	-129	-146	+381
000003B8	-371	+1145	+869	-559	-451	-451	-195	-195
000003C0	+463	+451	+439	+427	+416	+412	+408	+404
000003C8	+401	+381	+362	+198	+1187	+485	+294	+424
000003D0	+554	+698	+842	+970	+1099	+1234	+1369	+1392
000003D8	+1416	+1444	+1473	+1589	+1450	+1529	+1481	+1424
000003E0	+1368	+1448	+1273	-182	+154	+102	+435	+880
000003E8	+813	+735	+658	+572	+487	+422	+357	+299
000003F0	+242	+175	+108	+73	+37	-177	+375	+1343
000003F8	+264	-533	-307	-417	-399	-423	-191	-191
00000400	+488	+475	+462	+449	+436	+423	+410	+397
00000408	+384	+403	+422	+441	+716	+1299	+346	+481
00000410	+616	+777	+938	+1035	+1132	+1297	+1462	+1499
00000418	+1536	+1569	+1603	+1636	+1158	+1535	+1657	+1586
00000420	+1516	+1470	+913	-28	+54	+36	+787	+1041
00000428	+1040	+986	+933	+863	+794	+720	+647	+573
00000430	+500	+398	+296	+242	+188	+414	+128	+386
00000438	-124	-36	-204	+492	-92	-268	-188	-188
00000440	+513	+498	+484	+470	+456	+444	+432	+420
00000448	+408	+381	+354	+384	+669	+1134	+1088	+705
00000450	+707	+838	+970	+1094	+1218	+1365	+1511	+1578
00000458	+1645	+1674	+1704	+1710	+1076	+1500	+1797	+1701
00000460	+1606	+1616	+475	+6	+48	-151	+1441	+1377
00000468	+1186	+1156	+1126	+1071	+1018	+930	+843	+772
00000470	+701	+627	+553	+487	+421	+614	+552	+10
00000478	+108	+23	-190	+956	+1590	+1382	+150	-361
00000480	+538	+522	+507	+492	+477	+465	+454	+443
00000488	+432	+359	+287	+327	+623	+842	+1574	+802
00000490	+798	+900	+1003	+1153	+1304	+1433	+1561	+1658
00000498	+1755	+1780	+1806	+1784	+994	+1465	+1937	+1817
000004A0	+1697	+1763	+38	+40	+43	+429	+1584	+1458
000004A8	+1333	+1326	+1319	+1280	+1242	+1141	+1040	+971
000004B0	+903	+856	+810	+732	+654	+559	+465	+275
000004B8	+85	-46	-177	+780	+1993	+985	-279	-279
000004C0	+563	+546	+530	+513	+497	+486	+476	+466
000004C8	+456	+449	+444	-170	+624	+878	+1260	+1210
000004D0	+905	+1018	+1131	+1260	+1390	+1533	+1675	+1721
000004D8	+1768	+1806	+1844	+1738	+1248	+1510	+1901	+1916
000004E0	+1931	+1421	+16	+66	-10	+1049	+1598	+1530
000004E8	+1463	+1472	+1480	+1441	+1402	+1303	+1205	+1154
000004F0	+1104	+1069	+1035	+921	+807	+664	+522	+331
000004F8	+141	+5	-131	-244	-100	-100	-228	-228
00000500	+588	+570	+553	+535	+518	+508	+499	+489
00000508	+480	+412	+345	+101	+370	+786	+947	+1619
00000510	+1012	+1136	+1260	+1368	+1477	+1505	+1533	+1657
00000518	+1782	+1832	+1882	+1692	+1502	+1556	+1866	+1888
00000520	+1910	+952	-5	+93	-64	+1670	+1613	+1603
00000528	+1594	+1618	+1642	+1602	+1562	+1466	+1370	+1338
00000530	+1306	+1283	+1261	+1110	+960	+769	+579	+388
00000538	+198	+56	-86	-244	-146	-162	-178	-178
00000540	+597	+581	+565	+549	+534	+523	+513	+486
00000548	+460	+484	+253	+190	+383	+714	+917	+1399
00000550	+1243	+1173	+1360	+1459	+1559	+1645	+1731	+1633
00000558	+1535	+1578	+1621	+1760	+1900	+1837	+1774	+1855
00000560	+1936	+437	+89	+45	+258	+1719	+1645	+1666
00000568	+1688	+1701	+1715	+1680	+1646	+1587	+1528	+1502
00000570	+1475	+1380	+1286	+1111	+937	+777	+617	+441
00000578	+266	+110	-46	-235	-167	-159	-151	-151
00000580	+606	+592	+578	+564	+551	+539	+527	+483
00000588	+440	+557	+162	+279	+397	+642	+887	+1180
00000590	+1474	+1211	+1461	+1551	+1641	+1657	+1673	+1737
00000598	+1801	+1837	+1873	+1829	+1786	+1990	+1938	+1950
000005A0	+1963	-78	+184	+126	+837	+1897	+1678	+1730
000005A8	+1783	+1785	+1788	+1759	+1730	+1708	+1687	+1666
000005B0	+1645	+1478	+1311	+1112	+914	+785	+656	+495
000005B8	+335	+164	-7	-226	-189	-157	-125	-125
000005C0	+615	+603	+591	+579	+567	+554	+541	+512
000005C8	+484	+389	+39	+240	+442	+642	+969	+1233

000005D0	+1625	+1313	+1386	+1578	+1771	+1757	+1743	+1864
000005D8	+1858	+1887	+1917	+1890	+1864	+1967	+1942	+1957
000005E0	+1333	+46	+166	+86	+1415	+1850	+1774	+1793
000005E8	+1813	+1821	+1829	+1821	+1814	+1837	+1862	+1718
000005F0	+1574	+1423	+1272	+1137	+1003	+865	+727	+557
000005F8	+387	+194	+0	-201	-146	-154	-162	-162
00000600	+624	+614	+604	+594	+584	+570	+556	+542
00000608	+528	+350	+172	+330	+488	+642	+1052	+1158
00000610	+1520	+1159	+1055	+1094	+1134	+1345	+1557	+1864
00000618	+1916	+1938	+1961	+1951	+1942	+1944	+1947	+1965
00000620	+704	+170	+149	+47	+1994	+1804	+1871	+1857
00000628	+1844	+1857	+1871	+1884	+1898	+1839	+1781	+1642
00000630	+1504	+1369	+1234	+1163	+1092	+945	+798	+619
00000638	+440	+224	+8	-176	-104	-152	-200	-200
00000640	+648	+642	+636	+630	+624	+582	+540	+546
00000648	+553	+116	+191	+338	+485	+486	+616	+417
00000650	+346	+268	+319	+282	+245	+281	+318	-53
00000658	+472	+1179	+1886	+1897	+2037	+1982	+1927	+2168
00000660	+106	+102	+98	+670	+2011	+1906	+1930	+1905
00000668	+1881	+1883	+1885	+1888	+1890	+1801	+1713	+1600
00000670	+1488	+1419	+1349	+1200	+1050	+991	+803	+640
00000678	+477	+272	-60	-160	-133	-157	-181	-181
00000680	+672	+670	+668	+666	+665	+595	+525	+551
00000688	+578	+10	+466	+475	+483	+459	+436	+444
00000690	+453	+402	+352	+366	+380	+370	+360	+334
00000698	+308	+164	+20	+820	+1876	+1892	+1908	+1604
000006A0	+20	+290	+48	+1294	+2029	+2009	+1989	+1953
000006A8	+1918	+1909	+1900	+1892	+1883	+1764	+1646	+1687
000006B0	+1729	+1853	+1977	+1877	+1777	+1421	+809	+533
000006B8	+258	+193	-128	-145	-162	-162	-162	-162
000006C0	+696	+682	+668	+654	+641	+623	+606	+484
000006C8	+491	+712	+549	+539	+529	+536	+544	+407
000006D0	+399	+528	+401	+386	+371	+322	+273	+384
000006D8	+368	+324	+281	+166	+51	+969	+2016	+991
000006E0	+222	+166	-18	+2038	+2046	+2023	+2000	+1977
000006E8	+1955	+1935	+1915	+1895	+1876	+1903	+1930	+1917
000006F0	+1905	+1839	+1772	+1690	+1608	+1819	+1903	+1170
000006F8	+567	+545	+12	-193	-143	-143	-143	-143
00000700	+720	+694	+669	+643	+618	+652	+687	+545
00000708	+660	+518	+633	+604	+575	+357	+140	+243
00000710	+602	+782	+450	+662	+875	+915	+955	+691
00000718	+172	+229	+287	+408	+274	+175	+333	+378
00000720	+168	+170	+428	+2014	+2064	+2038	+2012	+2002
00000728	+1992	+1961	+1930	+1899	+1869	+1914	+1959	+1892
00000730	+1826	+1697	+1568	+1503	+1439	+1450	+1461	+1552
00000738	+1900	+642	+664	+14	-124	-124	-124	-124
00000740	+728	+703	+679	+654	+630	+604	+579	+722
00000748	+609	+632	+16	-327	-671	-488	-178	+197
00000750	+700	+876	+669	+869	+1070	+1287	+1504	+1762
00000758	+1892	+1268	+516	+132	+261	+220	+307	+314
00000760	+194	+201	+1105	+2025	+2049	+2039	+2029	+1995
00000768	+1961	+1955	+1949	+1943	+1937	+1902	+1867	+1776
00000770	+1686	+1563	+1439	+1292	+1145	+1013	+881	+1324
00000778	+1513	+1151	+1046	+332	-125	-125	-125	-125
00000780	+736	+712	+689	+666	+643	+685	+728	+515
00000788	-466	-917	-856	-618	-381	-310	+16	+407
00000790	+799	+971	+888	+1076	+1265	+1404	+1542	+1681
00000798	+1820	+2051	+2026	+1521	+248	+265	+282	+251
000007A0	+220	+105	+1527	+1909	+2035	+2040	+2046	+1988
000007A8	+1930	+1949	+1968	+1987	+2006	+1891	+1776	+1661
000007B0	+1547	+1429	+1311	+1210	+1108	+960	+813	+457
000007B8	+1382	+125	+148	+11	-126	-126	-126	-126
000007C0	+744	+721	+699	+685	+671	+654	+765	-204
000007C8	-917	-794	-544	-405	-267	-140	+242	+585
000007D0	+929	+1066	+1075	+1251	+1428	+1552	+1676	+1768
000007D8	+1860	+1937	+1887	+2149	+2027	+1061	+224	+251
000007E0	+278	+273	+13	+1056	+1972	+2057	+2015	+1973
000007E8	+1931	+1919	+1907	+1991	+1947	+1744	+1669	+1570
000007F0	+1471	+1311	+1151	+1015	+879	+747	+617	+629
000007F8	+387	-173	-94	-94	-95	-111	-127	-127

00000800	+752	+731	+710	+705	+700	+623	+802	-667
00000808	-856	-544	-489	-321	-154	+29	+469	+764
00000810	+1060	+1161	+1262	+1427	+1592	+1701	+1810	+1855
00000818	+1900	+1952	+2005	+2009	+2014	+1986	+167	+251
00000820	+336	+313	+291	+204	+118	+1179	+1985	+1958
00000828	+1932	+1889	+1846	+1995	+1888	+1597	+1562	+1479
00000830	+1396	+1193	+991	+820	+650	+535	+421	+34
00000838	-96	-88	-80	-72	-64	-96	-128	-128
00000840	+773	+748	+723	+715	+706	+813	+665	-1051
00000848	-592	-409	-356	-197	-40	+202	+574	+856
00000850	+1140	+1243	+1346	+1497	+1648	+1733	+1819	+1856
00000858	+1893	+1957	+2022	+1958	+2023	+1548	+178	+327
00000860	+349	+99	+233	+190	+148	+188	+100	+907
00000868	+1715	+1784	+1980	+2057	+1877	+1655	+1560	+1402
00000870	+1243	+1104	+965	+594	+223	+18	-58	-127
00000878	-68	-55	-43	-54	-66	-98	-130	-130
00000880	+794	+765	+737	+725	+713	+748	+16	-795
00000888	-584	-403	-223	-74	+74	+376	+679	+949
00000890	+1220	+1325	+1430	+1568	+1705	+1766	+1828	+1857
00000898	+1887	+1963	+2040	+1908	+2033	+1111	+190	+276
000008A0	+107	+1805	+175	+177	+179	+221	+263	+113
000008A8	-37	+143	+579	+839	+843	+817	+791	+557
000008B0	+323	+119	-84	-15	+53	-114	-25	-32
000008B8	-40	-23	-6	-37	-68	-100	-132	-132
000008C0	+815	+782	+751	+735	+719	+795	-408	-699
000008C8	-480	-316	-154	-7	+140	+437	+736	+985
000008D0	+1236	+1359	+1482	+1614	+1746	+1791	+1837	+1850
000008D8	+1864	+1896	+1929	+2073	+2090	+353	+281	+208
000008E0	+648	+1958	+2117	+1099	+81	+133	+186	+174
000008E8	+162	+54	+73	+93	-15	+19	+53	+48
000008F0	+42	+30	+19	-81	-53	-63	+55	+438
000008F8	-76	-46	-17	-43	-70	-102	-134	-134
00000900	+836	+800	+765	+745	+726	+842	-833	-604
00000908	-376	-230	-85	+60	+206	+499	+793	+1022
00000910	+1252	+1393	+1535	+1661	+1787	+1816	+1846	+1844
00000918	+1842	+1830	+1819	+1855	+1380	+236	+373	+141
00000920	+1190	+2112	+2011	+2021	+2032	+1070	+109	+107
00000928	+106	+93	+80	+115	+150	+117	+84	+51
00000930	+18	-58	-134	+109	+609	+1012	+1416	+524
00000938	-112	-70	-28	-50	-72	-104	-136	-136
00000940	+813	+803	+794	+729	+792	+346	-739	-553
00000948	-368	-225	-84	+57	+200	+402	+734	+968
00000950	+1204	+1351	+1499	+1663	+1827	+1784	+1741	+1810
00000958	+1879	+1719	+1560	+800	+425	+409	+266	+218
00000960	+1707	+2126	+2033	+2027	+2022	+2042	+2062	+1497
00000968	+933	+534	+134	+31	-72	-19	+34	+352
00000970	+669	+1091	+1514	+1408	+1430	+1476	+1395	-174
00000978	+48	-9	-67	-68	-70	-102	-134	-134
00000980	+790	+807	+824	+713	+859	-150	-646	-503
00000988	-360	-221	-83	+55	+194	+306	+675	+915
00000990	+1156	+1310	+1464	+1538	+1612	+1624	+1636	+1648
00000998	+1661	+1737	+1814	+1666	+751	+327	+416	+296
000009A0	+1969	+2012	+2055	+2034	+2013	+1990	+1967	+1992
000009A8	+2017	+1999	+1981	+1995	+2009	+1893	+1777	+1805
000009B0	+1833	+1729	+1626	+1555	+1484	+1429	+1118	-105
000009B8	-48	-77	-106	-87	-68	-100	-132	-132
000009C0	+831	+826	+822	+809	+925	-494	-633	-492
000009C8	-352	-200	-50	+4	+60	+201	+472	+789
000009D0	+1108	+1252	+1396	+1436	+1477	+1488	+1499	+1542
000009D8	+1586	+1618	+1651	+1787	+260	+276	+293	+885
000009E0	+1990	+2009	+2029	+2016	+2003	+1985	+1968	+1974
000009E8	+1980	+1960	+1939	+1903	+1994	+1933	+1871	+1818
000009F0	+1764	+1687	+1611	+1534	+1458	+1453	+681	-59
000009F8	-32	-56	-81	-73	-66	-98	-130	-130
00000A00	+872	+846	+820	+778	+736	-966	-620	-482
00000A08	-344	-180	-17	+82	+182	+353	+525	+792
00000A10	+1060	+1194	+1329	+1335	+1342	+1352	+1363	+1437
00000A18	+1512	+1500	+1489	+1141	+282	+482	+171	+1475
00000A20	+2012	+2007	+2003	+1998	+1994	+1981	+1969	+1956
00000A28	+1944	+1921	+1898	+1811	+1980	+1973	+1966	+1831

00000A30	+1696	+1646	+1596	+1514	+1432	+1478	+244	-14
00000A38	-16	-36	-56	-60	-64	-96	-128	-128
00000A40	+917	+817	+846	+859	+104	-831	-614	-462
00000A48	-309	-141	+25	+128	+359	+352	+474	+563
00000A50	+781	+922	+1064	+1118	+1172	+1223	+1275	+1327
00000A58	+1379	+1369	+1359	+781	+331	+311	+163	+2103
00000A60	+1996	+2006	+2017	+1995	+1974	+1961	+1949	+1936
00000A68	+1924	+1887	+1850	+1742	+1761	+1863	+1964	+1906
00000A70	+1847	+1802	+1756	+1703	+1650	+1675	-220	-115
00000A78	-11	-24	-37	-50	-63	-87	-111	-111
00000A80	+962	+789	+872	+940	-528	-697	-609	-442
00000A88	-275	-103	+67	+46	+281	+224	+423	+334
00000A90	+502	+651	+800	+901	+1002	+1095	+1188	+1217
00000A98	+1247	+1238	+1230	+421	+381	+397	+668	+1964
00000AA0	+1980	+2005	+2031	+1992	+1954	+1941	+1929	+1916
00000AA8	+1904	+1853	+1803	+1801	+1799	+1753	+1707	+1853
00000AB0	+1999	+1958	+1917	+1893	+1868	+1104	-172	+39
00000AB8	-6	-12	-18	-40	-62	-78	-94	-94
00000AC0	+799	+792	+914	+1077	-936	-706	-604	-278
00000AC8	-208	-257	-51	+220	+107	+95	+340	+217
00000AD0	+351	+435	+519	+612	+704	+854	+1005	+1019
00000AD8	+1034	+1043	+924	+397	+383	+298	+1237	+1976
00000AE0	+1948	+1964	+1981	+1957	+1934	+1921	+1909	+1896
00000AE8	+1884	+1843	+1804	+1788	+1773	+1731	+1689	+1656
00000AF0	+1622	+1682	+1742	+1594	+1446	+429	-77	+17
00000AF8	-17	-24	-31	-54	-77	-77	-77	-77
00000B00	+892	+924	+957	+446	-833	-588	-855	-370
00000B08	-398	-411	+87	-374	+189	+95	+258	+101
00000B10	+200	+219	+239	+323	+407	+614	+822	+822
00000B18	+822	+848	+619	+374	+385	+199	+1806	+1989
00000B20	+1916	+1923	+1931	+1922	+1914	+1901	+1889	+1876
00000B28	+1864	+1834	+1805	+1776	+1747	+1709	+1672	+1587
00000B30	+1502	+1406	+1311	+1296	+1281	-118	+18	-4
00000B38	-28	-36	-44	-68	-92	-76	-60	-60
00000B40	+901	+950	+1127	-143	-645	-564	-356	-195
00000B48	-163	-192	-222	+100	-89	+218	+13	-22
00000B50	-59	+102	+135	+192	+249	+342	+437	+499
00000B58	+561	+626	+563	+397	+358	+580	+1827	+1921
00000B60	+1888	+1894	+1901	+1891	+1882	+1808	+1863	+1845
00000B68	+1828	+1797	+1768	+1738	+1708	+1670	+1632	+1539
00000B70	+1445	+1343	+1242	+1308	+991	-14	+4	+7
00000B78	+9	-9	-27	+3	+33	-15	-63	-63
00000B80	+910	+848	+1042	-1116	-969	-285	-881	-917
00000B88	-697	-230	-276	-193	-111	-555	-231	-18
00000B90	-62	-15	-225	-67	+91	+71	+52	+176
00000B98	+301	+404	+508	+420	+332	+962	+1848	+1854
00000BA0	+1860	+1865	+1871	+1860	+1850	+1715	+1837	+1814
00000BA8	+1792	+1761	+1731	+1700	+1670	+1632	+1593	+1491
00000BB0	+1389	+1281	+1173	+1193	+445	-38	-10	+18
00000BB8	+46	+18	-10	-54	-98	-82	-66	-66
00000BC0	+855	+977	+588	-1416	-477	-1037	-1086	-182
00000BC8	-942	-676	-410	-799	-421	-624	-443	-326
00000BD0	-337	-277	-217	-318	-162	-152	-141	-50
00000BD8	-87	+246	+453	+435	+290	+1383	+1837	+1826
00000BE0	+1816	+1828	+1841	+1813	+1786	+1718	+1779	+1767
00000BE8	+1756	+1724	+1694	+1662	+1632	+1593	+1554	+1451
00000BF0	+1348	+1250	+1152	+1109	+171	+89	+135	+77
00000BF8	+19	-3	-25	-55	-85	-77	-69	-69
00000C00	+800	+979	-121	-1333	-1010	-1278	-1291	-727
00000C08	+348	+158	+480	+1026	+1060	+970	+880	+646
00000C10	+412	-155	-466	-697	-416	-375	-334	-149
00000C18	-220	+217	+398	+451	+248	+1805	+1826	+1799
00000C20	+1772	+1791	+1811	+1766	+1722	+1721	+1721	+1720
00000C28	+1720	+1688	+1657	+1625	+1594	+1554	+1515	+1411
00000C30	+1308	+1219	+1131	+1026	-102	+89	+25	+8
00000C38	-8	-24	-40	-56	-72	-72	-72	-72
00000C40	+978	+926	-1045	-1512	-572	+161	+1022	+836
00000C48	+777	+664	+807	+958	+853	+811	+641	+751
00000C50	+733	+650	+696	+470	-396	-774	-384	-410
00000C58	-308	+463	+467	+454	+698	+1661	+1728	+1723

00000C60	+1718	+1696	+1675	+1694	+1713	+1686	+1660	+1722
00000C68	+1656	+1632	+1608	+1576	+1545	+1498	+1453	+1343
00000C70	+1233	+1145	+1057	+641	-30	+68	+39	+18
00000C78	-2	-18	-34	-50	-66	-66	-66	-66
00000C80	+900	+873	+334	+996	+889	+832	+776	+863
00000C88	+695	+658	+622	+634	+646	+780	+658	+728
00000C90	+542	+560	+579	+485	+648	+363	-434	-671
00000C98	-397	+709	+536	+458	+1149	+1518	+1630	+1647
00000CA0	+1664	+1602	+1540	+1622	+1704	+1652	+1600	+1724
00000CA8	+1593	+1576	+1560	+1528	+1496	+1443	+1391	+1275
00000CB0	+1159	+1071	+984	+256	+41	+47	+54	+28
00000CB8	+3	-13	-29	-45	-61	-61	-61	-61
00000CC0	+758	+916	+818	+952	+703	+672	+641	+794
00000CC8	+820	+732	+645	+638	+631	+693	+627	+657
00000CD0	+559	+558	+557	+452	+476	+580	+555	+59
00000CD8	-181	+403	+349	+350	+1120	+1662	+1180	+1467
00000CE0	+1626	+1499	+1372	+1462	+1551	+1577	+1476	+1638
00000CE8	+1545	+1528	+1512	+1479	+1447	+1388	+1329	+1207
00000CF0	+1084	+1037	+990	+127	+32	+34	+36	+22
00000CF8	+8	-7	-23	-39	-55	-55	-55	-55
00000D00	+872	+831	+790	+781	+773	+768	+763	+726
00000D08	+690	+679	+669	+643	+617	+606	+596	+586
00000D10	+576	+556	+536	+548	+561	+413	+521	+533
00000D18	+546	+482	+418	+370	+1091	+1039	+1243	+1415
00000D20	+1332	+1396	+1461	+1430	+1399	+1503	+1352	+1553
00000D28	+1498	+1481	+1464	+1431	+1398	+1333	+1268	+1139
00000D30	+1010	+875	+741	-129	+24	+21	+19	+16
00000D38	+14	-2	-18	-34	-50	-50	-50	-50
00000D40	+842	+820	+798	+792	+786	+771	+756	+725
00000D48	+695	+679	+664	+641	+618	+606	+595	+584
00000D50	+573	+553	+534	+531	+529	+460	+519	+498
00000D58	+477	+462	+447	+440	+817	+839	+1117	+1219
00000D60	+1066	+1225	+1385	+1290	+1322	+1356	+1264	+1371
00000D68	+1350	+1414	+1349	+1285	+1221	+1191	+1162	+1052
00000D70	+943	+866	+405	-39	+27	+31	+35	+23
00000D78	+11	-3	-18	-33	-48	-56	-64	-64
00000D80	+812	+809	+806	+803	+800	+775	+750	+725
00000D88	+701	+680	+660	+639	+619	+607	+594	+582
00000D90	+570	+551	+533	+515	+497	+507	+517	+463
00000D98	+409	+442	+476	+510	+544	+512	+736	+1024
00000DA0	+1056	+1055	+1054	+1022	+1245	+1210	+1176	+1189
00000DA8	+1203	+1347	+1235	+1139	+1044	+1050	+1056	+966
00000DB0	+877	+857	+70	+50	+31	+41	+52	+30
00000DB8	+9	-5	-19	-33	-47	-63	-79	-79
00000DC0	+862	+894	+926	+846	+766	+747	+728	+709
00000DC8	+690	+672	+655	+637	+620	+607	+593	+580
00000DD0	+567	+549	+532	+514	+497	+498	+499	+467
00000DD8	+436	+438	+441	+396	+351	+328	+562	+916
00000DE0	+1142	+596	+819	+898	+1104	+1160	+1088	+1119
00000DE8	+1023	+1280	+1281	+945	+867	+836	+806	+872
00000DF0	+810	+576	-41	-4	+34	+35	+36	+21
00000DF8	+6	-6	-19	-32	-45	-69	-93	-93
00000E00	+912	+851	+790	+761	+732	+719	+706	+693
00000E08	+680	+665	+651	+636	+622	+607	+593	+578
00000E10	+564	+547	+531	+514	+498	+489	+481	+472
00000E18	+464	+435	+407	+410	+414	+401	+645	+808
00000E20	+972	+1034	+584	+646	+708	+854	+744	+922
00000E28	+844	+1085	+1071	+624	+690	+751	+813	+522
00000E30	-24	+39	+103	+70	+38	+29	+21	+12
00000E38	+4	-8	-20	-32	-44	-76	-108	-108
00000E40	+844	+807	+771	+750	+730	+714	+699	+683
00000E48	+668	+654	+642	+628	+616	+602	+590	+576
00000E50	+564	+546	+529	+511	+494	+484	+475	+465
00000E58	+456	+430	+406	+396	+388	+297	+336	+485
00000E60	+636	+165	+462	+519	+576	+649	+722	+955
00000E68	+804	+765	+600	+257	+172	+129	+88	+125
00000E70	+36	+61	+87	+64	+42	+32	+23	+13
00000E78	+4	-9	-22	-35	-48	-72	-96	-96
00000E80	+776	+764	+752	+740	+728	+710	+692	+674
00000E88	+656	+644	+633	+621	+610	+598	+587	+575

00000E90	+564	+545	+527	+508	+490	+479	+469	+458
00000E98	+448	+426	+405	+383	+362	+322	+283	+291
00000EA0	+300	+320	+340	+264	+188	+188	+444	+732
00000EA8	+508	+318	+129	+147	+166	+148	+131	+113
00000EB0	+96	+83	+71	+58	+46	+35	+25	+14
00000EB8	+4	-10	-24	-38	-52	-68	-84	-84
00000EC0	+772	+760	+749	+737	+726	+705	+685	+664
00000EC8	+644	+633	+624	+613	+604	+593	+584	+573
00000ED0	+564	+544	+525	+505	+486	+474	+463	+451
00000ED8	+440	+421	+404	+385	+368	+338	+310	+304
00000EE0	+300	+307	+314	+273	+232	+119	+1030	+845
00000EE8	+788	+854	+154	+156	+160	+142	+126	+108
00000EF0	+92	+81	+71	+60	+50	+38	+27	+15
00000EF8	+4	-11	-26	-41	-56	-64	-72	-72
00000F00	+768	+757	+746	+735	+724	+701	+678	+655
00000F08	+632	+623	+615	+606	+598	+589	+581	+572
00000F10	+564	+543	+523	+502	+482	+469	+457	+444
00000F18	+432	+417	+403	+388	+374	+355	+337	+318
00000F20	+300	+294	+288	+282	+276	+306	+80	+958
00000F28	+556	+111	+179	+166	+154	+137	+121	+104
00000F30	+88	+79	+71	+62	+54	+41	+29	+16
00000F38	+4	-12	-28	-44	-60	-60	-60	-60
00000F40	+768	+757	+746	+735	+724	+701	+678	+655
00000F48	+632	+623	+615	+606	+598	+589	+581	+572
00000F50	+564	+543	+523	+502	+482	+469	+457	+444
00000F58	+432	+417	+403	+388	+374	+355	+337	+318
00000F60	+300	+294	+288	+282	+276	+322	+240	+54
00000F68	+252	+79	+163	+158	+154	+137	+121	+104
00000F70	+88	+79	+71	+62	+54	+41	+29	+16
00000F78	+4	-12	-28	-44	-60	-60	-60	-60
00000F80	+768	+757	+746	+735	+724	+701	+678	+655
00000F88	+632	+623	+615	+606	+598	+589	+581	+572
00000F90	+564	+543	+523	+502	+482	+469	+457	+444
00000F98	+432	+417	+403	+388	+374	+355	+337	+318
00000FA0	+300	+294	+288	+282	+276	+210	+144	+174
00000FA8	+204	+175	+147	+150	+154	+137	+121	+104
00000FB0	+88	+79	+71	+62	+54	+41	+29	+16
00000FB8	+4	-12	-28	-44	-60	-60	-60	-60
00000FC0	+768	+757	+746	+735	+724	+701	+678	+655
00000FC8	+632	+623	+615	+606	+598	+589	+581	+572
00000FD0	+564	+543	+523	+502	+482	+469	+457	+444
00000FD8	+432	+417	+403	+388	+374	+355	+337	+318
00000FE0	+300	+294	+288	+282	+276	+210	+144	+174
00000FE8	+204	+175	+147	+150	+154	+137	+121	+104
00000FF0	+88	+79	+71	+62	+54	+41	+29	+16
00000FF8	+4	-12	-28	-44	-60	-60	-60	-60

4.2.4.3.4 Reconstructed Y Component

The reconstructed Y component is the same as the LL0 band shown in section 4.2.4.3.3.7.

4.2.4.3.5 Reconstructed Cb Component

The following is a dump of the reconstructed Cb component.

The sample data for 11.5 fixed-point integers (RDP 7.1/8.0) is:

00000000	+1728	+1730	+1732	+1734	+1736	+1738	+1740	+1742
00000008	+1744	+1740	+1736	+1732	+1728	+1796	+1864	+1804
00000010	+1744	+1754	+1764	+1774	+1784	+1794	+1804	+1814
00000018	+1824	+1774	+1724	+1802	+1880	+1814	+1748	+1810
00000020	+1872	+1878	+1884	+1890	+1896	+1910	+1924	+1938
00000028	+1952	+1938	+1924	+1910	+1896	+1914	+1932	+1950
00000030	+1968	+1974	+1980	+1986	+1992	+1998	+2004	+2010
00000038	+2016	+2016	+2016	+2016	+2016	+2016	+2016	+2016

00000040	+1710	+1697	+1684	+1704	+1723	+1726	+1730	+1733
00000048	+1737	+1738	+1740	+1741	+1743	+1758	+1774	+1757
00000050	+1741	+1762	+1783	+1788	+1793	+1774	+1755	+1784
00000058	+1813	+1817	+1821	+1825	+1829	+1857	+1885	+1881
00000060	+1877	+1849	+1821	+1857	+1894	+1904	+1914	+1924
00000068	+1935	+1928	+1922	+1915	+1909	+1922	+1936	+1949
00000070	+1963	+1974	+1985	+1997	+2008	+2009	+2011	+2012
00000078	+2014	+2017	+2020	+2023	+2026	+2026	+2026	+2026
00000080	+1692	+1664	+1637	+1674	+1711	+1715	+1720	+1725
00000088	+1730	+1737	+1744	+1751	+1758	+1721	+1684	+1711
00000090	+1738	+1770	+1802	+1802	+1802	+1754	+1706	+1754
00000098	+1802	+1860	+1918	+1848	+1778	+1900	+2022	+1952
000000A0	+1882	+1820	+1759	+1825	+1892	+1898	+1905	+1911
000000A8	+1918	+1919	+1920	+1921	+1922	+1931	+1940	+1949
000000B0	+1958	+1974	+1991	+2008	+2025	+2021	+2018	+2015
000000B8	+2012	+2018	+2024	+2030	+2036	+2036	+2036	+2036
000000C0	+1674	+1631	+1589	+1644	+1698	+1703	+1710	+1716
000000C8	+1723	+1735	+1748	+1760	+1773	+1763	+1754	+1760
000000D0	+1767	+1794	+1821	+1800	+1779	+1830	+1881	+1900
000000D8	+1919	+2047	+2175	+2015	+1855	+1879	+1903	+1927
000000E0	+1951	+1759	+1824	+1856	+1890	+1892	+1895	+1897
000000E8	+1901	+1909	+1918	+1926	+1935	+1939	+1944	+1948
000000F0	+1953	+1974	+1996	+2019	+2041	+2032	+2025	+2017
000000F8	+2010	+2019	+2028	+2037	+2046	+2046	+2046	+2046
00000100	+1656	+1599	+1543	+1614	+1686	+1693	+1701	+1708
00000108	+1716	+1734	+1752	+1770	+1788	+1806	+1824	+1810
00000110	+1796	+1818	+1840	+2054	+2268	+1650	+1032	+510
00000118	-12	-70	-128	+390	+908	+1602	+2296	+2158
00000120	+2020	+1699	+1890	+1889	+1888	+1887	+1886	+1885
00000128	+1884	+1900	+1916	+1932	+1948	+1948	+1948	+1948
00000130	+1948	+1975	+2003	+2030	+2058	+2045	+2033	+2020
00000138	+2008	+2020	+2032	+2044	+2056	+2056	+2056	+2056
00000140	+1590	+1570	+1551	+1612	+1673	+1579	+1742	+1713
00000148	+1685	+1672	+1660	+1711	+1763	+1694	+1626	+1941
00000150	+2001	+2060	+583	-654	-1891	-2046	-2201	-2084
00000158	-1967	-2049	-2131	-2053	-1975	-1751	-1527	+41
00000160	+1609	+2374	+1859	+2000	+1886	+1898	+1912	+1909
00000168	+1907	+1900	+1894	+1919	+1945	+1944	+1944	+1943
00000170	+1943	+1967	+1992	+2017	+2042	+2032	+2023	+2014
00000178	+2006	+2017	+2028	+2039	+2050	+2050	+2050	+2050
00000180	+1524	+1542	+1560	+1610	+1661	+1467	+1785	+1719
00000188	+1654	+1611	+1568	+1653	+1738	+1839	+1940	+793
00000190	-866	-2050	-2210	-2082	-1954	-1902	-1850	-1862
00000198	-1874	-1980	-2086	-1936	-1786	-1776	-1766	-1820
000001A0	-1874	-534	+1829	+2112	+1884	+1911	+1939	+1934
000001A8	+1930	+1901	+1872	+1907	+1942	+1941	+1940	+1939
000001B0	+1938	+1960	+1982	+2004	+2027	+2021	+2015	+2009
000001B8	+2004	+2014	+2024	+2034	+2044	+2044	+2044	+2044
000001C0	+1586	+1641	+1697	+1704	+1712	+1577	+1699	+1660
000001C8	+1623	+1613	+1604	+1642	+1681	+1791	-402	-2036
000001D0	-1877	-2144	-1899	-1942	-1985	-1918	-1851	-1880
000001D8	-1909	-1959	-2009	-1931	-1853	-1801	-1749	-1617
000001E0	-1485	-1939	-1882	+96	+2074	+1971	+1869	+1895
000001E8	+1921	+1885	+1850	+1894	+1939	+1937	+1936	+1934
000001F0	+1933	+1952	+1972	+1991	+2011	+2008	+2006	+2003
000001F8	+2002	+2011	+2020	+2029	+2038	+2038	+2038	+2038
00000200	+1136	+1229	+1322	+1287	+1252	+1433	+1614	+1603
00000208	+1592	+1616	+1640	+1632	+1624	+2256	-1720	-1792
00000210	-1864	-1982	-2100	-2058	-2016	-1934	-1852	-1898
00000218	-1944	-1938	-1932	-1926	-1920	-1826	-1732	-1670
00000220	-1608	-1552	-1496	-1664	-1320	+2288	+1800	+1856
00000228	+1912	+1870	+1828	+1882	+1936	+1934	+1932	+1930
00000230	+1928	+1945	+1962	+1979	+1996	+1997	+1998	+1999
00000238	+2000	+2008	+2016	+2024	+2032	+2032	+2032	+2032
00000240	+1552	+1624	+1698	+1674	+1652	+1644	+1638	+1614
00000248	+1592	+1611	+1630	+1681	+1733	+1146	-2000	-1787
00000250	-1830	-1924	-2019	-2049	-2080	-1986	-1893	-1895
00000258	-1898	-1896	-1894	-1860	-1827	-1779	-1731	-1667
00000260	-1604	-1615	-1626	-1878	-594	+2063	+1903	+2016
00000268	+1873	+2132	+1880	+1884	+1888	+1921	+1955	+1941

00000270	+1927	+1925	+1925	+1955	+1987	+2005	+2025	+2043
00000278	+2063	+1995	+1927	+2099	+2015	+2095	+2175	+2175
00000280	+1456	+1509	+1562	+1551	+1540	+1601	+1662	+1627
00000288	+1592	+1606	+1621	+1731	+1842	+37	-2281	-1782
00000290	-1796	-1867	-1938	-2041	-2144	-2039	-1934	-1893
00000298	-1852	-1854	-1857	-1795	-1734	-1732	-1731	-1665
000002A0	-1600	-1678	-1757	-1836	+645	+2094	+2007	+1920
000002A8	+1322	+2139	+1933	+1886	+1840	+1909	+1979	+1952
000002B0	+1926	+1907	+1888	+1933	+1978	+2015	+2052	+2089
000002B8	+2126	+1982	+1838	+2174	+1998	+2158	+2318	+2318
000002C0	+1488	+1520	+1554	+1554	+1556	+1588	+1622	+1606
000002C8	+1592	+1569	+1547	+1700	+1855	-993	-2049	-1825
000002D0	-1858	-1905	-1953	-2016	-2080	-1995	-1911	-1858
000002D8	-1806	-1812	-1819	-1729	-1641	-1685	-1730	-1678
000002E0	-1628	-1677	-1727	-2194	+1947	+2125	+2046	+945
000002E8	-2205	+114	+2177	+2144	+1856	+1912	+1970	+1963
000002F0	+1957	+1935	+1915	+1925	+1937	+1991	+2047	+2181
000002F8	+2061	+2337	+2613	+1817	+2301	+2157	+2269	+2397
00000300	+1520	+1533	+1546	+1559	+1572	+1577	+1582	+1587
00000308	+1592	+1533	+1474	+1671	+1868	-2023	-1818	-1869
00000310	-1920	-1944	-1968	-1992	-2016	-1952	-1888	-1824
00000318	-1760	-1771	-1782	-1665	-1548	-1639	-1730	-1693
00000320	-1656	-1677	-1699	-1017	+2226	+1644	+2087	-286
00000328	-2148	-2167	-1674	+611	+2384	+2173	+1962	+1975
00000330	+1988	+1965	+1942	+1919	+1896	+1969	+2042	+2019
00000338	+1484	+1916	-1220	+2484	+1068	-916	+1708	+1964
00000340	+1504	+1514	+1526	+1536	+1548	+1550	+1554	+1556
00000348	+1560	+1581	+1604	+1786	+689	-2138	-1894	-1905
00000350	-1918	-1926	-1935	-1943	-1952	-1878	-1805	-1731
00000358	-1658	-1626	-1596	-1549	-1503	-1507	-1513	-1518
00000360	-1524	-1526	-1785	+148	+2080	+1995	+2422	-2094
00000368	-2003	-2033	-1809	-1665	-1776	-189	+1398	+2536
00000370	+2139	+2122	+2105	+2327	+2295	+2204	+2113	+2870
00000378	-213	-1669	-1077	-1237	-1653	-1589	+2059	+1931
00000380	+1488	+1497	+1506	+1515	+1524	+1525	+1526	+1527
00000388	+1528	+1631	+1735	+1902	-490	-2254	-1971	-1943
00000390	-1916	-1909	-1902	-1895	-1888	-1805	-1722	-1639
00000398	-1556	-1483	-1411	-1434	-1458	-1377	-1297	-1344
000003A0	-1392	-1376	-1872	+1312	+1935	+1834	+1734	-2622
000003A8	-2370	-2157	-1945	-1892	-1840	-2039	-2239	-2022
000003B0	-782	-281	+220	+433	+134	-377	-888	-1655
000003B8	-1398	-1166	-934	-1374	-1302	-726	+2410	+1898
000003C0	+1472	+1478	+1486	+1492	+1500	+1498	+1498	+1496
000003C8	+1496	+1600	+1705	+1666	-933	-1474	-2015	-1964
000003D0	-1914	-1891	-1869	-1846	-1824	-1731	-1639	-1546
000003D8	-1454	-1387	-1321	-1191	-1317	-1150	-1240	-1250
000003E0	-1260	-1545	-1575	+2459	+1885	+2057	+182	-2429
000003E8	-2225	-2088	-1952	-1928	-1904	-1905	-1907	-2149
000003F0	-1879	-1835	-1793	-1670	-1803	-1645	-1489	-1491
000003F8	-1239	-1335	-1431	-1335	-1495	+681	+2345	+2089
00000400	+1456	+1461	+1466	+1471	+1476	+1473	+1470	+1467
00000408	+1464	+1570	+1676	+1174	-1888	-950	-2060	-1986
00000410	-1912	-1874	-1836	-1798	-1760	-1658	-1556	-1454
00000418	-1352	-1292	-1232	-1204	-1688	-1180	-1184	-1156
00000420	-1128	-1203	-254	+2071	+1836	+2281	-1370	-2237
00000428	-2080	-2020	-1960	-1964	-1968	-2028	-2088	-2020
00000430	-1952	-1855	-1758	-1725	-1692	-1635	-1578	-1329
00000438	-1592	-1504	-1416	-1040	-1688	+2088	+2280	+2280
00000440	+1428	+1438	+1450	+1460	+1472	+1463	+1454	+1493
00000448	+1533	+1512	+1748	-160	-2068	-1346	-1137	-1775
00000450	-1902	-1848	-1794	-1708	-1622	-1544	-1466	-1356
00000458	-1247	-1198	-1149	-1196	-1755	-1246	-993	-1012
00000460	-1032	-1202	+930	+2023	+1837	+2238	-2480	-2286
00000468	-1838	-1799	-1761	-1835	-1909	-1954	-2000	-1982
00000470	-1964	-1908	-1853	-1829	-1807	-1749	-1692	-1538
00000478	-1642	-1526	-1410	-638	-122	+774	+1926	+1926
00000480	+1400	+1417	+1434	+1451	+1469	+1454	+1439	+1520
00000488	+1602	+1455	+1820	-1239	-1737	-1743	-726	-1821
00000490	-1892	-1822	-1752	-1618	-1485	-1431	-1377	-1259
00000498	-1142	-1104	-1066	-1188	-1823	-1313	-803	-869

000004A0	-936	-1203	+2115	+1976	+1838	+916	-2055	-1569
000004A8	-1596	-1579	-1563	-1706	-1850	-1881	-1913	-1944
000004B0	-1976	-1962	-1949	-1935	-1922	-1864	-1807	-1749
000004B8	-1692	-1548	-1404	-1004	-92	+996	+2084	+2084
000004C0	+1372	+1394	+1418	+1441	+1465	+1444	+1423	+1483
000004C8	+1543	+1765	+1732	-2204	-1533	-1611	-1179	-1274
000004D0	-1882	-1764	-1646	-1560	-1475	-1301	-1127	-1113
000004D8	-1101	-994	-887	-1052	-1730	-1395	-804	-709
000004E0	-872	-306	+2051	+1929	+2063	-151	-1597	-1347
000004E8	-1354	-1326	-1300	-1417	-1535	-1599	-1665	-1730
000004F0	-1796	-1824	-1852	-1880	-1909	-1883	-1857	-1767
000004F8	-1678	-1570	-1462	-1434	+1154	+2402	+1858	+1858
00000500	+1344	+1373	+1403	+1432	+1462	+1435	+1409	+1446
00000508	+1484	+1564	+621	-1890	-1842	-1737	-1633	-728
00000510	-1872	-1706	-1541	-1503	-1466	-1428	-1391	-1225
00000518	-1060	-884	-709	-917	-1638	-1478	-807	-551
00000520	-808	+590	+1988	+1882	+2288	-1218	-1140	-1126
00000528	-1112	-1075	-1038	-1129	-1220	-1319	-1418	-1517
00000530	-1616	-1686	-1756	-1826	-1896	-1902	-1908	-1786
00000538	-1664	-1592	-1520	-1864	+2400	+2016	+2144	+2144
00000540	+1348	+1372	+1398	+1424	+1450	+1463	+1477	+1491
00000548	+1505	+1729	-607	-1838	-1790	-1735	-1681	-1003
00000550	-1350	-1710	-1558	-1519	-1480	-1382	-1285	-1379
00000558	-1475	-1208	-941	-611	-793	-796	-800	-611
00000560	-680	+1364	+1872	+1932	+1481	-1150	-966	-926
00000568	-886	-868	-851	-929	-1009	-1061	-1114	-1230
00000570	-1348	-1521	-1695	-1805	-1915	-1900	-1886	-1792
00000578	-1698	-1604	-1766	-744	+2326	+2134	+2198	+2198
00000580	+1352	+1373	+1395	+1417	+1439	+1492	+1546	+1536
00000588	+1526	+1894	-1835	-1787	-1739	-1735	-1731	-1279
00000590	-828	-1714	-1577	-1536	-1495	-1337	-1180	-1023
00000598	-866	-764	-663	-562	-973	-371	-282	-417
000005A0	-552	+2138	+1757	+1983	+674	-1083	-793	-726
000005A8	-660	-662	-665	-731	-798	-804	-811	-945
000005B0	-1080	-1357	-1635	-1784	-1934	-1899	-1865	-1798
000005B8	-1732	-1616	-2012	+376	+2252	+2252	+2252	+2252
000005C0	+1356	+1373	+1391	+1409	+1427	+1425	+1423	+1501
000005C8	+1579	+907	-1814	-1702	-1847	-1909	-1716	-1634
000005D0	-786	-1686	-1819	-1712	-1605	-1371	-1139	-921
000005D8	-705	-656	-608	-384	-416	-233	-308	-477
000005E0	+376	+1968	+1769	+2033	-5	-839	-651	-606
000005E8	-562	-584	-606	-660	-715	-739	-763	-963
000005F0	-1164	-1432	-1702	-1843	-1985	-1977	-1971	-1884
000005F8	-1798	-2012	-2226	+2152	+2178	+2194	+2210	+2210
00000600	+1360	+1374	+1388	+1402	+1416	+1358	+1300	+1466
00000608	+1632	-81	-1794	-1619	-1956	-2085	-1702	-1991
00000610	-744	-891	-526	-353	-180	-383	-586	-821
00000618	-1056	-805	-554	-463	-372	-353	-334	-539
00000620	+1304	+1799	+1782	+2085	-684	-597	-510	-487
00000628	-464	-506	-548	-590	-632	-674	-716	-982
00000630	-1248	-1509	-1770	-1903	-2036	-2057	-2078	-1971
00000638	-1864	-1896	-1416	+2392	+2104	+2136	+2168	+2168
00000640	+1346	+1358	+1371	+1383	+1396	+1395	+1393	+1552
00000648	+1711	-1177	-1762	-2203	-1364	-465	+690	+1942
00000650	+1913	+1747	+1837	+1816	+1794	+1889	+1983	+1774
00000658	+1564	+548	-468	-299	-386	-391	-398	-147
00000660	+1895	+1920	+1946	+1284	-401	-397	-393	-421
00000668	-450	-478	-507	-568	-629	-722	-815	-1068
00000670	-1321	-1697	-2074	-2082	-2091	-2129	-2168	-2030
00000678	-1894	-2028	+142	+2280	+2114	+2082	+2050	+2050
00000680	+1332	+1343	+1354	+1365	+1377	+1432	+1487	+1382
00000688	+1278	-1763	-195	+1308	+1788	+1667	+1547	+1522
00000690	+1498	+1569	+1641	+1681	+1721	+1600	+1480	+1552
00000698	+1624	+1901	+2179	+1145	-401	-431	-462	-12
000006A0	+1974	+1786	+2111	+484	-119	-198	-277	-356
000006A8	-436	-451	-467	-547	-627	-770	-914	-898
000006B0	-882	-606	-330	-470	-611	-1435	-2259	-2091
000006B8	-1924	-2160	+1700	+2168	+2124	+2028	+1932	+1932
000006C0	+1318	+1327	+1337	+1346	+1357	+1405	+1452	+1420
000006C8	+1389	+1381	+1629	+1748	+1356	+1495	+1635	+1631

000006D0	+1627	+1551	+1732	+1689	+1647	+1728	+1809	+1730
000006D8	+1652	+1686	+1721	+1948	+1921	+874	-430	+363
000006E0	+1925	+1764	+1859	+148	-28	-95	-160	-291
000006E8	-422	-423	-426	-557	-688	-370	-309	-280
000006F0	-251	-570	-890	-858	-826	-563	-301	-1079
000006F8	-1858	-1636	+2170	+2296	+2166	+2118	+2070	+2070
00000700	+1304	+1312	+1321	+1329	+1338	+1378	+1419	+1459
00000708	+1500	+1452	+1404	+1420	+1436	+1580	+1724	+1484
00000710	+1244	+1022	+1313	+1187	+1062	+1088	+1115	+1397
00000718	+1680	+1728	+1777	+1729	+1682	+1922	+1651	+1763
00000720	+1876	+1742	+1609	-189	+62	+8	-45	-226
00000728	-408	-397	-387	-568	-750	-227	-217	-430
00000730	-644	-1047	-1451	-1502	-1554	-1229	-905	-580
00000738	-256	-856	+1616	+1912	+2208	+2208	+2208	+2208
00000740	+1290	+1304	+1319	+1334	+1350	+1377	+1404	+1271
00000748	+1395	+1525	+1655	+1769	+1884	+1802	+1720	+1430
00000750	+1141	+1026	+1168	+1037	+908	+700	+491	+331
00000758	+172	+873	+1575	+1524	+1731	+1991	+1738	+1774
00000760	+1811	+1914	+993	-119	+48	-74	-196	-271
00000768	-346	-407	-470	-324	-179	-213	-503	-810
00000770	-1117	-1273	-1430	-1636	-1841	-1823	-1551	-1246
00000778	-686	+1194	+1026	+1610	+2194	+2194	+2194	+2194
00000780	+1276	+1297	+1319	+1341	+1363	+1376	+1390	+1340
00000788	+1802	+1854	+1907	+1863	+1820	+1768	+1717	+1377
00000790	+1038	+1031	+1024	+889	+755	+568	+381	+290
00000798	+200	+19	-162	+553	+1781	+2060	+1827	+1786
000007A0	+1746	+2086	+378	-50	+35	-156	-348	-316
000007A8	-284	-419	-554	-337	-121	-456	-791	-934
000007B0	-1078	-1244	-1411	-1514	-1617	-1907	-1686	-1657
000007B8	-1116	+1964	+1972	+2076	+2180	+2180	+2180	+2180
000007C0	+1262	+1289	+1318	+1346	+1375	+1359	+1344	+1632
000007C8	+1921	+1927	+1934	+1876	+1820	+1702	+1585	+1259
000007D0	+935	+907	+880	+724	+569	+436	+302	+217
000007D8	+132	+44	-43	-99	+102	+801	+2011	+1878
000007E0	+1745	+1426	+2131	+916	-43	-191	-340	-393
000007E8	-446	-461	-478	-237	-254	-522	-790	-962
000007F0	-1135	-1519	-1647	-1760	-1872	-1446	-2045	-1827
000007F8	-1354	+2254	+2278	+2222	+2166	+2166	+2166	+2166
00000800	+1248	+1283	+1318	+1353	+1388	+1343	+1298	+1925
00000808	+2040	+2001	+1962	+1891	+1820	+1637	+1454	+1143
00000810	+832	+784	+736	+560	+384	+304	+224	+144
00000818	+64	+70	+76	+18	-40	+54	+1684	+1714
00000820	+1744	+1790	+1836	+1882	+1928	+798	-332	-470
00000828	-608	-505	-402	-139	-388	-589	-790	-991
00000830	-1192	-1794	-1884	-2006	-2128	-2266	-868	+818
00000838	+2504	+2288	+2072	+2112	+2152	+2152	+2152	+2152
00000840	+1238	+1263	+1290	+1332	+1375	+1301	+1484	+2002
00000848	+2009	+1973	+1939	+1871	+1805	+1608	+1411	+1118
00000850	+826	+751	+676	+505	+334	+273	+212	+151
00000858	+91	+69	+48	+11	-26	+482	+1758	+1771
00000860	+1784	+2033	+1771	+1860	+1950	+1989	+2029	+884
00000868	-260	-1156	-261	-309	-614	-922	-975	-1411
00000870	-1848	-2062	-2019	-697	+626	+2060	+2471	+2273
00000878	+2076	+2051	+2026	+2081	+2136	+2136	+2136	+2136
00000880	+1228	+1245	+1263	+1313	+1363	+1260	+1670	+2080
00000888	+1978	+1947	+1916	+1853	+1791	+1580	+1369	+1094
00000890	+820	+718	+616	+450	+285	+243	+201	+159
00000898	+118	+69	+20	+4	-13	+910	+1833	+1828
000008A0	+1824	+229	+1706	+1839	+1972	+1901	+1830	+1983
000008A8	+2136	+2032	+1416	+1056	+696	+280	+376	+728
000008B0	+1080	+1767	+2454	+2405	+2356	+2035	+2226	+2193
000008B8	+2160	+2070	+1980	+2050	+2120	+2120	+2120	+2120
000008C0	+1218	+1226	+1235	+1292	+1350	+1235	+1888	+2061
000008C8	+1979	+1935	+1893	+1834	+1776	+1551	+1326	+1070
000008D0	+814	+685	+556	+395	+235	+212	+189	+166
000008D8	+145	+116	+88	-68	+33	+1306	+1811	+1949
000008E0	+1576	-200	-183	+905	+1994	+1956	+1919	+1881
000008E8	+1844	+2004	+1909	+2005	+2102	+2042	+2239	+2195
000008F0	+2152	+2043	+1935	+2370	+2038	+2697	+1821	+368
000008F8	+2244	+2121	+1998	+2051	+2104	+2104	+2104	+2104

00000900	+1208	+1208	+1209	+1273	+1338	+1210	+2107	+2043
00000908	+1980	+1925	+1871	+1816	+1762	+1523	+1285	+1046
00000910	+808	+652	+497	+341	+186	+182	+179	+175
00000918	+172	+164	+157	+117	+590	+1958	+1791	+1815
00000920	+816	+140	-24	-28	-32	+988	+2008	+2036
00000928	+2064	+1977	+1890	+1931	+1972	+2013	+2054	+2127
00000930	+2200	+2320	+2440	+2080	+184	-1760	-3192	+336
00000938	+2328	+2172	+2016	+2052	+2088	+2088	+2088	+2088
00000940	+1222	+1215	+1209	+1266	+1325	+1459	+2104	+2046
00000948	+1989	+1945	+1903	+1861	+1819	+1612	+1406	+1136
00000950	+866	+715	+564	+446	+328	+295	+263	+230
00000958	+199	+481	+764	+711	+1427	+2086	+1721	+1692
00000960	+128	-37	+55	-14	-82	-108	-135	+335
00000968	+804	+1293	+1783	+2272	+2250	+2197	+1889	+1356
00000970	+568	-763	-2095	-3010	-2646	-2931	-2705	+2305
00000978	+2196	+2159	+2122	+2117	+2112	+2112	+2112	+2112
00000980	+1236	+1223	+1210	+1261	+1313	+1708	+2103	+2050
00000988	+1998	+1967	+1937	+1907	+1877	+1702	+1528	+1226
00000990	+924	+778	+633	+552	+471	+409	+348	+287
00000998	+226	+287	+349	+283	+1241	+1702	+1652	+1826
000009A0	-48	+43	+134	+1	-132	-181	-230	-343
000009A8	-456	-670	-884	-202	-544	-946	-1860	-1718
000009B0	-2088	-2311	-2534	-2469	-2404	-2311	-1706	+2483
000009B8	+2064	+2146	+2228	+2182	+2136	+2136	+2136	+2136
000009C0	+1250	+1230	+1211	+1255	+1300	+1957	+2101	+2054
000009C8	+2007	+1956	+1906	+1856	+1806	+1696	+1586	+1284
000009D0	+982	+841	+701	+657	+613	+554	+497	+438
000009D8	+381	+412	+445	+717	+1758	+1782	+1807	+1095
000009E0	-128	-70	-11	-97	-182	-253	-325	-428
000009E8	-532	-761	-991	-580	-170	-1033	-873	-1976
000009F0	-1800	-2018	-2237	-2343	-2450	-2650	-35	+2308
000009F8	+2092	+2117	+2142	+2151	+2160	+2160	+2160	+2160
00000A00	+1264	+1238	+1212	+1250	+1288	+2206	+2100	+2058
00000A08	+2016	+1946	+1876	+1806	+1736	+1690	+1644	+1342
00000A10	+1040	+905	+770	+763	+756	+701	+646	+591
00000A18	+536	+539	+542	+897	+1764	+1607	+1962	+365
00000A20	-208	-182	-156	-194	-232	-326	-420	-514
00000A28	-608	-853	-1098	-1471	-820	-97	-910	-955
00000A30	-2024	-2238	-2452	-2474	-2496	-2990	+1636	+2134
00000A38	+2120	+2088	+2056	+2120	+2184	+2184	+2184	+2184
00000A40	+1198	+1191	+1185	+1227	+1525	+2065	+2093	+2009
00000A48	+1925	+1887	+1850	+1781	+1712	+1682	+1653	+1464
00000A50	+1275	+1130	+986	+937	+889	+840	+792	+743
00000A58	+696	+684	+674	+1335	+1741	+1839	+1939	+54
00000A60	-294	-295	-297	-298	-300	-414	-527	-641
00000A68	-755	-947	-1140	-1732	-1813	-733	-166	-1038
00000A70	-887	-1234	-1581	-1609	-1636	-1158	+2392	+2279
00000A78	+2166	+2119	+2072	+2121	+2170	+2170	+2170	+2170
00000A80	+1132	+1145	+1159	+1205	+1763	+1924	+2086	+1960
00000A88	+1834	+1829	+1825	+1756	+1688	+1675	+1663	+1586
00000A90	+1510	+1356	+1202	+1112	+1023	+981	+939	+897
00000A98	+856	+831	+807	+1774	+1718	+1817	+1405	-512
00000AA0	-380	-409	-438	-403	-369	-502	-635	-768
00000AA8	-902	-1042	-1182	-1482	-1782	-2138	-1982	-610
00000AB0	-262	-486	-711	-744	-777	+162	+2125	+1912
00000AB8	+2212	+2150	+2088	+2122	+2156	+2156	+2156	+2156
00000AC0	+1194	+1146	+1100	+1182	+1776	+1927	+2079	+1863
00000AC8	+1903	+1978	+1799	+1843	+1632	+1619	+1608	+1612
00000AD0	+1617	+1517	+1418	+1351	+1284	+1216	+1149	+1098
00000AD8	+1048	+945	+1099	+1781	+1695	+1954	+422	-566
00000AE0	-530	-554	-579	-571	-565	-686	-806	-927
00000AE8	-1049	-1232	-1416	-1679	-1943	-2342	-2486	-2501
00000AF0	-2773	-2074	-1376	-1671	-2221	+458	+2369	+2137
00000AF8	+2162	+2133	+2104	+2123	+2142	+2142	+2142	+2142
00000B00	+1256	+1149	+1043	+1160	+1790	+1931	+2073	+1766
00000B08	+1972	+2129	+1774	+1931	+1576	+1565	+1554	+1639
00000B10	+1724	+1679	+1635	+1590	+1546	+1453	+1361	+1300
00000B18	+1240	+1060	+1392	+1788	+1672	+2092	-560	-620
00000B20	-680	-700	-721	-741	-762	-870	-979	-1087
00000B28	-1196	-1423	-1650	-1877	-2104	-2291	-2478	-2857

00000B30	-2724	-2895	-3067	-3110	-3666	+2547	+2103	+2107
00000B38	+2112	+2116	+2120	+2124	+2128	+2128	+2128	+2128
00000B40	+1214	+1170	+1128	+1453	+1779	+1692	+1861	+1807
00000B48	+1753	+1732	+1712	+1803	+1640	+1759	+1623	+1710
00000B50	+1799	+1666	+1790	+1755	+1719	+1628	+1539	+1497
00000B58	+1456	+1352	+1504	+1752	+1745	+1445	-902	-898
00000B60	-894	-907	-921	-935	-950	-1070	-1190	-1310
00000B68	-1431	-1641	-1852	-2062	-2273	-2431	-2590	-2812
00000B70	-2779	-2929	-3080	-3279	-2198	+2298	+2187	+2124
00000B78	+2062	+2081	+2100	+2119	+2138	+2138	+2138	+2138
00000B80	+1172	+1193	+1214	+1747	+1769	+1710	+2163	+2360
00000B88	+2046	+1592	+1651	+1677	+1704	+1954	+1693	+1783
00000B90	+1874	+1654	+1947	+1920	+1893	+1805	+1718	+1695
00000B98	+1672	+1644	+1617	+1717	+1818	+798	-1245	-1176
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00000BA8	-1666	-1860	-2054	-2248	-2442	-2572	-2702	-2768
00000BB0	-2834	-2964	-3094	-3192	-219	+2306	+2272	+2142
00000BB8	+2012	+2046	+2080	+2114	+2148	+2148	+2148	+2148
00000BC0	+1194	+1150	+1364	+1784	+1694	+1983	+2272	+1441
00000BC8	+2147	+1980	+1813	+1838	+1864	+1909	+1698	+1823
00000BD0	+1949	+1818	+1943	+1989	+2034	+1933	+1833	+1812
00000BD8	+1792	+1712	+1633	+1649	+1923	-536	-1459	-1390
00000BE0	-1322	-1354	-1388	-1421	-1455	-1566	-1678	-1789
00000BE8	-1901	-2078	-2256	-2433	-2611	-2744	-2878	-2915
00000BF0	-2953	-2998	-3044	-3777	+1633	+2298	+1941	+2015
00000BF8	+2090	+2107	+2124	+2141	+2158	+2158	+2158	+2158
00000C00	+1216	+1109	+1514	+1823	+1620	+2001	+1870	+1803
00000C08	+1224	+1600	+1464	+1232	+1000	+1096	+1192	+1352
00000C10	+1512	+1726	+1940	+2058	+2176	+2062	+1948	+1930
00000C18	+1912	+1781	+1650	+1583	+2028	-1871	-1674	-1605
00000C20	-1536	-1595	-1654	-1713	-1772	-1863	-1954	-2045
00000C28	-2136	-2297	-2458	-2619	-2780	-2917	-3054	-3063
00000C30	-3072	-3033	-2994	-2827	+2460	+2035	+2122	+2145
00000C38	+2168	+2168	+2168	+2168	+2168	+2168	+2168	+2168
00000C40	+1190	+1271	+1610	+1756	+1647	+1523	+1144	+1324
00000C48	+1249	+1364	+1224	+1211	+1199	+1255	+1566	+1430
00000C50	+1294	+1404	+1514	+1800	+2087	+2075	+2063	+2003
00000C58	+1944	+1654	+1621	+1811	+979	-1997	-1903	-1888
00000C60	-1874	-1927	-1982	-2036	-2091	-2163	-2236	-2308
00000C68	-2381	-2513	-2646	-2778	-2911	-3005	-3100	-3114
00000C70	-3129	-3039	-3206	-1084	+2317	+2104	+2148	+2159
00000C78	+2171	+2175	+2179	+2183	+2187	+2187	+2187	+2187
00000C80	+1164	+1179	+1195	+1179	+1163	+1302	+1442	+1358
00000C88	+1274	+1385	+1496	+1447	+1399	+1158	+1429	+1508
00000C90	+1588	+1594	+1601	+1543	+1486	+1832	+2179	+2077
00000C98	+1976	+1528	+1593	+1785	-582	-2381	-2133	-2172
00000CA0	-2212	-2261	-2311	-2361	-2411	-2464	-2518	-2572
00000CA8	-2626	-2730	-2834	-2938	-3042	-3094	-3146	-3166
00000CB0	-3186	-3046	-3418	+658	+2174	+2174	+2174	+2174
00000CB8	+2174	+2182	+2190	+2198	+2206	+2206	+2206	+2206
00000CC0	+1202	+1230	+1259	+1272	+1286	+1321	+1356	+1343
00000CC8	+1331	+1405	+1480	+1474	+1470	+1349	+1483	+1522
00000CD0	+1562	+1576	+1591	+1573	+1557	+1589	+1622	+1718
00000CD8	+1816	+1690	+1820	+1694	-2015	-2556	-2330	-2376
00000CE0	-2422	-2610	-2799	-2700	-2602	-2669	-2736	-2803
00000CE8	-2871	-2946	-3022	-3097	-3173	-3182	-3192	-3153
00000CF0	-3115	-3324	-3278	+2256	+2159	+2147	+2136	+2156
00000CF8	+2177	+2189	+2201	+2213	+2225	+2225	+2225	+2225
00000D00	+1240	+1282	+1325	+1367	+1410	+1340	+1271	+1329
00000D08	+1388	+1426	+1465	+1503	+1542	+1540	+1539	+1537
00000D10	+1536	+1559	+1582	+1605	+1628	+1603	+1578	+1617
00000D18	+1656	+1596	+1536	+1604	-2936	-2476	-2528	-2580
00000D20	-2632	-2704	-2777	-2785	-2794	-2874	-2955	-3035
00000D28	-3116	-3163	-3210	-3257	-3304	-3271	-3238	-3141
00000D30	-3044	-3091	-2114	+2319	+2144	+2121	+2098	+2139
00000D38	+2180	+2196	+2212	+2228	+2244	+2244	+2244	+2244
00000D40	+1230	+1255	+1281	+1306	+1333	+1303	+1272	+1338
00000D48	+1405	+1436	+1468	+1500	+1533	+1535	+1537	+1539
00000D50	+1542	+1562	+1584	+1605	+1627	+1601	+1577	+1616
00000D58	+1656	+1807	+1959	-417	-2793	-2797	-2545	-2581

00000D60	-2618	-2687	-2757	-2794	-2833	-2901	-2968	-3036
00000D68	-3105	-3145	-3186	-3178	-3171	-3149	-3128	-3058
00000D70	-2989	-3221	-126	+2281	+2129	+2084	+2040	+2107
00000D78	+2175	+2189	+2203	+2217	+2231	+2231	+2231	+2231
00000D80	+1220	+1229	+1238	+1247	+1257	+1266	+1275	+1348
00000D88	+1422	+1447	+1473	+1499	+1525	+1530	+1536	+1542
00000D90	+1548	+1567	+1587	+1606	+1626	+1601	+1577	+1616
00000D98	+1656	+1763	+1871	+1658	-2138	-2862	-2563	-2583
00000DA0	-2604	-2671	-2738	-2805	-2873	-2928	-2983	-3038
00000DA8	-3094	-3128	-3162	-3100	-3038	-3028	-3018	-2976
00000DB0	-2934	-3352	+1862	+2244	+2114	+2048	+1982	+2076
00000DB8	+2170	+2182	+2194	+2206	+2218	+2218	+2218	+2218
00000DC0	+1210	+1234	+1259	+1283	+1308	+1325	+1341	+1390
00000DC8	+1439	+1457	+1477	+1496	+1516	+1525	+1535	+1544
00000DD0	+1554	+1571	+1589	+1607	+1625	+1616	+1608	+1632
00000DD8	+1656	+1718	+1782	+1685	+1845	+528	-2836	-2728
00000DE0	-2622	-2654	-2687	-2719	-2752	-2763	-2773	-2992
00000DE8	-2955	-3030	-3106	-2813	-2777	-3226	-2908	-3134
00000DF0	-3359	-971	+2186	+2270	+2099	+2075	+2052	+2108
00000DF8	+2165	+2175	+2185	+2195	+2205	+2205	+2205	+2205
00000E00	+1200	+1240	+1280	+1320	+1360	+1384	+1408	+1432
00000E08	+1456	+1469	+1482	+1495	+1508	+1521	+1534	+1547
00000E10	+1560	+1576	+1592	+1608	+1624	+1632	+1640	+1648
00000E18	+1656	+1675	+1694	+1713	+1732	+1871	+986	-827
00000E20	-2640	-2638	-2636	-2634	-2632	-2598	-2564	-2946
00000E28	-2816	-2933	-3050	-2783	-3028	-3169	-1774	+293
00000E30	+2360	+2179	+1998	+2041	+2084	+2103	+2122	+2141
00000E38	+2160	+2168	+2176	+2184	+2192	+2192	+2192	+2192
00000E40	+1232	+1266	+1300	+1334	+1368	+1390	+1412	+1434
00000E48	+1456	+1468	+1482	+1494	+1508	+1520	+1534	+1546
00000E50	+1560	+1578	+1596	+1614	+1632	+1640	+1648	+1656
00000E58	+1664	+1645	+1628	+1705	+1784	+2101	+1908	+1298
00000E60	+688	+1071	-594	-1587	-2580	-2891	-3202	-2281
00000E68	-2640	-2058	-1476	-94	+1032	+2278	+2244	+2209
00000E70	+2176	+2131	+2088	+2091	+2096	+2111	+2128	+2143
00000E78	+2160	+2168	+2176	+2184	+2192	+2192	+2192	+2192
00000E80	+1264	+1292	+1320	+1348	+1376	+1396	+1416	+1436
00000E88	+1456	+1469	+1482	+1495	+1508	+1521	+1534	+1547
00000E90	+1560	+1580	+1600	+1620	+1640	+1648	+1656	+1664
00000E98	+1672	+1617	+1562	+1699	+1836	+1821	+1806	+1887
00000EA0	+1968	+1964	+1960	+2020	+2080	+1936	+1792	+1200
00000EA8	+1632	+1889	+2146	+2083	+2020	+2093	+2166	+2079
00000EB0	+1992	+2085	+2178	+2143	+2108	+2121	+2134	+2147
00000EB8	+2160	+2168	+2176	+2184	+2192	+2192	+2192	+2192
00000EC0	+1296	+1318	+1340	+1362	+1384	+1402	+1420	+1438
00000EC8	+1456	+1468	+1482	+1494	+1508	+1520	+1534	+1546
00000ED0	+1560	+1582	+1604	+1626	+1648	+1656	+1664	+1672
00000ED8	+1680	+1667	+1656	+1739	+1824	+1811	+1800	+1835
00000EE0	+1872	+1881	+1890	+1819	+1748	+1995	+450	+937
00000EE8	+912	+715	+2056	+2019	+1984	+2035	+2088	+2059
00000EF0	+2032	+2085	+2140	+2129	+2120	+2129	+2140	+2149
00000EF8	+2160	+2168	+2176	+2184	+2192	+2192	+2192	+2192
00000F00	+1328	+1344	+1360	+1376	+1392	+1408	+1424	+1440
00000F08	+1456	+1469	+1482	+1495	+1508	+1521	+1534	+1547
00000F10	+1560	+1584	+1608	+1632	+1656	+1664	+1672	+1680
00000F18	+1688	+1719	+1750	+1781	+1812	+1803	+1794	+1785
00000F20	+1776	+1798	+1820	+1874	+1928	+1798	+2180	+674
00000F28	+1216	+2103	+1966	+1957	+1948	+1979	+2010	+2041
00000F30	+2072	+2087	+2102	+2117	+2132	+2139	+2146	+2153
00000F38	+2160	+2168	+2176	+2184	+2192	+2192	+2192	+2192
00000F40	+1328	+1344	+1360	+1376	+1392	+1408	+1424	+1440
00000F48	+1456	+1468	+1482	+1494	+1508	+1520	+1534	+1546
00000F50	+1560	+1584	+1608	+1632	+1656	+1664	+1672	+1680
00000F58	+1688	+1718	+1750	+1780	+1812	+1802	+1794	+1784
00000F60	+1776	+1798	+1820	+1858	+1896	+1750	+1860	+2338
00000F68	+1792	+2134	+1966	+1956	+1948	+1978	+2010	+2040
00000F70	+2072	+2086	+2102	+2116	+2132	+2138	+2146	+2152
00000F78	+2160	+2168	+2176	+2184	+2192	+2192	+2192	+2192
00000F80	+1328	+1344	+1360	+1376	+1392	+1408	+1424	+1440
00000F88	+1456	+1469	+1482	+1495	+1508	+1521	+1534	+1547

00000F90	+1560	+1584	+1608	+1632	+1656	+1664	+1672	+1680
00000F98	+1688	+1719	+1750	+1781	+1812	+1803	+1794	+1785
00000FA0	+1776	+1798	+1820	+1842	+1864	+1958	+2052	+1954
00000FA8	+1856	+1911	+1966	+1957	+1948	+1979	+2010	+2041
00000FB0	+2072	+2087	+2102	+2117	+2132	+2139	+2146	+2153
00000FB8	+2160	+2168	+2176	+2184	+2192	+2192	+2192	+2192
00000FC0	+1328	+1344	+1360	+1376	+1392	+1408	+1424	+1440
00000FC8	+1456	+1468	+1482	+1494	+1508	+1520	+1534	+1546
00000FD0	+1560	+1584	+1608	+1632	+1656	+1664	+1672	+1680
00000FD8	+1688	+1718	+1750	+1780	+1812	+1802	+1794	+1784
00000FE0	+1776	+1798	+1820	+1842	+1864	+1958	+2052	+1954
00000FE8	+1856	+1910	+1966	+1956	+1948	+1978	+2010	+2040
00000FF0	+2072	+2086	+2102	+2116	+2132	+2138	+2146	+2152
00000FF8	+2160	+2168	+2176	+2184	+2192	+2192	+2192	+2192

The sample data for 12.4 fixed-point integers (RDP 8.1) is:

00000000	+864	+865	+866	+867	+868	+869	+870	+871
00000008	+872	+870	+868	+866	+864	+898	+932	+902
00000010	+872	+877	+882	+887	+892	+897	+902	+907
00000018	+912	+887	+862	+901	+940	+907	+874	+905
00000020	+936	+939	+942	+945	+948	+955	+962	+969
00000028	+976	+969	+962	+955	+948	+957	+966	+975
00000030	+984	+987	+990	+993	+996	+999	+1002	+1005
00000038	+1008	+1008	+1008	+1008	+1008	+1008	+1008	+1008
00000040	+855	+848	+842	+852	+861	+863	+865	+866
00000048	+868	+869	+870	+870	+871	+879	+887	+878
00000050	+870	+881	+891	+894	+896	+887	+877	+892
00000058	+906	+908	+910	+912	+914	+928	+942	+940
00000060	+938	+924	+910	+928	+947	+952	+957	+962
00000068	+967	+964	+961	+957	+954	+961	+968	+974
00000070	+981	+987	+992	+998	+1004	+1004	+1005	+1006
00000078	+1007	+1008	+1010	+1011	+1013	+1013	+1013	+1013
00000080	+846	+832	+818	+837	+855	+857	+860	+862
00000088	+865	+868	+872	+875	+879	+860	+842	+855
00000090	+869	+885	+901	+901	+901	+877	+853	+877
00000098	+901	+930	+959	+924	+889	+950	+1011	+976
000000A0	+941	+910	+879	+912	+946	+949	+952	+955
000000A8	+959	+959	+960	+960	+961	+965	+970	+974
000000B0	+979	+987	+995	+1004	+1012	+1010	+1009	+1007
000000B8	+1006	+1009	+1012	+1015	+1018	+1018	+1018	+1018
000000C0	+837	+815	+794	+822	+849	+851	+855	+858
000000C8	+861	+867	+874	+880	+886	+881	+877	+880
000000D0	+883	+897	+910	+900	+889	+915	+940	+950
000000D8	+959	+1023	+1087	+1007	+927	+939	+951	+963
000000E0	+975	+879	+912	+928	+945	+946	+947	+948
000000E8	+950	+954	+959	+963	+967	+969	+972	+974
000000F0	+976	+987	+998	+1009	+1020	+1016	+1012	+1008
000000F8	+1005	+1009	+1014	+1018	+1023	+1023	+1023	+1023
00000100	+828	+799	+771	+807	+843	+846	+850	+854
00000108	+858	+867	+876	+885	+894	+903	+912	+905
00000110	+898	+909	+920	+1027	+1134	+825	+516	+255
00000118	-6	-35	-64	+195	+454	+801	+1148	+1079
00000120	+1010	+849	+945	+944	+944	+943	+943	+942
00000128	+942	+950	+958	+966	+974	+974	+974	+974
00000130	+974	+987	+1001	+1015	+1029	+1022	+1016	+1010
00000138	+1004	+1010	+1016	+1022	+1028	+1028	+1028	+1028
00000140	+795	+785	+775	+806	+836	+789	+871	+856
00000148	+842	+836	+830	+855	+881	+847	+813	+970
00000150	+1000	+1030	+291	-327	-945	-1023	-1100	-1042
00000158	-983	-1024	-1065	-1026	-987	-875	-763	+20
00000160	+804	+1187	+929	+1000	+943	+949	+956	+954
00000168	+953	+950	+947	+959	+972	+972	+972	+971
00000170	+971	+983	+996	+1008	+1021	+1016	+1011	+1007
00000178	+1003	+1008	+1014	+1019	+1025	+1025	+1025	+1025
00000180	+762	+771	+780	+805	+830	+733	+892	+859

00000188	+827	+805	+784	+826	+869	+919	+970	+396
00000190	-433	-1025	-1105	-1041	-977	-951	-925	-931
00000198	-937	-990	-1043	-968	-893	-888	-883	-910
000001A0	-937	-267	+914	+1056	+942	+955	+969	+967
000001A8	+965	+950	+936	+953	+971	+970	+970	+969
000001B0	+969	+980	+991	+1002	+1013	+1010	+1007	+1004
000001B8	+1002	+1007	+1012	+1017	+1022	+1022	+1022	+1022
000001C0	+793	+820	+848	+852	+856	+788	+849	+830
000001C8	+811	+806	+802	+821	+840	+895	-201	-1018
000001D0	-938	-1072	-949	-971	-992	-959	-925	-940
000001D8	-954	-979	-1004	-965	-926	-900	-874	-808
000001E0	-742	-969	-941	+48	+1037	+985	+934	+947
000001E8	+960	+942	+925	+947	+969	+968	+928	+967
000001F0	+966	+976	+986	+995	+1005	+1004	+1003	+1001
000001F8	+1001	+1005	+1010	+1014	+1019	+1019	+1019	+1019
00000200	+568	+614	+661	+643	+626	+716	+807	+801
00000208	+796	+808	+820	+816	+812	+1128	-860	-896
00000210	-932	-991	-1050	-1029	-1008	-967	-926	-949
00000218	-972	-969	-966	-963	-960	-913	-866	-835
00000220	-804	-776	-748	-832	-660	+1144	+900	+928
00000228	+956	+935	+914	+941	+968	+967	+966	+965
00000230	+964	+972	+981	+989	+998	+998	+999	+999
00000238	+1000	+1004	+1008	+1012	+1016	+1016	+1016	+1016
00000240	+776	+812	+849	+837	+826	+822	+819	+807
00000248	+796	+805	+815	+840	+866	+573	-1000	-893
00000250	-915	-962	-1009	-1024	-1040	-993	-946	-947
00000258	-949	-948	-947	-930	-913	-889	-865	-833
00000260	-802	-807	-813	-939	-297	+1031	+951	+1008
00000268	+936	+1066	+940	+942	+944	+960	+977	+970
00000270	+963	+962	+962	+977	+993	+1002	+1012	+1021
00000278	+1031	+997	+963	+1049	+1007	+1047	+1087	+1087
00000280	+728	+754	+781	+775	+770	+800	+831	+813
00000288	+796	+803	+810	+865	+921	+18	-1140	-891
00000290	-898	-933	-969	-1020	-1072	-1019	-967	-946
00000298	-926	-927	-928	-897	-867	-866	-865	-832
000002A0	-800	-839	-878	-918	+322	+1047	+1003	+960
000002A8	+661	+1069	+966	+943	+920	+954	+989	+976
000002B0	+963	+953	+944	+966	+989	+1007	+1026	+1044
000002B8	+1063	+991	+919	+1087	+999	+1079	+1159	+1159
000002C0	+744	+760	+777	+777	+778	+794	+811	+803
000002C8	+796	+784	+773	+850	+927	-496	-1024	-912
000002D0	-929	-952	-976	-1008	-1040	-997	-955	-929
000002D8	-903	-906	-909	-864	-820	-842	-865	-839
000002E0	-814	-838	-863	-1097	+973	+1062	+1023	+472
000002E8	-1102	+57	+1088	+1072	+928	+956	+985	+981
000002F0	+978	+967	+957	+962	+968	+995	+1023	+1090
000002F8	+1030	+1168	+1306	+908	+1150	+1078	+1134	+1198
00000300	+760	+766	+773	+779	+786	+788	+791	+793
00000308	+796	+766	+737	+835	+934	-1011	-909	-934
00000310	-960	-972	-984	-996	-1008	-976	-944	-912
00000318	-880	-885	-891	-832	-774	-819	-865	-846
00000320	-828	-838	-849	-508	+1113	+822	+1043	-143
00000328	-1074	-1083	-837	+305	+1192	+1086	+981	+987
00000330	+994	+982	+971	+959	+948	+984	+1021	+1009
00000338	+742	-958	-610	+1242	+534	-458	+854	+982
00000340	+752	+757	+763	+768	+774	+775	+777	+778
00000348	+780	+790	+802	+893	+344	-1069	-947	-952
00000350	-959	-963	-967	-971	-976	-939	-902	-865
00000358	-829	-813	-798	-774	-751	-753	-756	-759
00000360	-762	-763	-892	+74	+1040	+997	+1211	-1047
00000368	-1001	-1016	-904	-832	-888	-94	+699	+1268
00000370	+1069	+1061	+1052	+1163	+1147	+1102	+1056	+1435
00000378	-106	-834	-538	-618	-826	-794	+1029	+965
00000380	+744	+748	+753	+757	+762	+762	+763	+763
00000388	+764	+815	+867	+951	-245	-1127	-985	-971
00000390	-958	-954	-951	-947	-944	-902	-861	-819
00000398	-778	-741	-705	-717	-729	-688	-648	-672
000003A0	-696	-688	-936	+656	+967	+917	+867	-1311
000003A8	-1185	-1078	-972	-946	-920	-1019	-1119	-1011
000003B0	-391	-140	+110	+216	+67	-188	-444	-827

000003B8	-699	-583	-467	-687	-651	-363	+1205	+949
000003C0	+736	+739	+743	+746	+750	+749	+749	+748
000003C8	+748	+800	+852	+833	-466	-737	-1007	-982
000003D0	-957	-945	-934	-923	-912	-865	-819	-773
000003D8	-727	-693	-660	-595	-658	-575	-620	-625
000003E0	-630	-772	-787	+1229	+942	+1028	+91	-1214
000003E8	-1112	-1044	-976	-964	-952	-952	-953	-1074
000003F0	-939	-917	-896	-835	-901	-822	-744	-745
000003F8	-619	-667	-715	-667	-747	+340	+1172	+1044
00000400	+728	+730	+733	+735	+738	+736	+735	+733
00000408	+732	+785	+838	+587	-944	-475	-1030	-993
00000410	-956	-937	-918	-899	-880	-829	-778	-727
00000418	-676	-646	-616	-602	-844	-590	-592	-578
00000420	-564	-601	-127	+1035	+918	+1140	-685	-1118
00000428	-1040	-1010	-980	-982	-984	-1014	-1044	-1010
00000430	-976	-927	-879	-862	-846	-817	-789	-664
00000438	-796	-752	-708	-520	-844	+1044	+1140	+1140
00000440	+714	+719	+725	+730	+736	+731	+727	+746
00000448	+766	+756	+874	-80	-1034	-673	-568	-887
00000450	-951	-924	-897	-854	-811	-772	-733	-678
00000458	-623	-599	-574	-598	-877	-623	-496	-506
00000460	-516	-601	+465	+1011	+918	+1119	-1240	-1143
00000468	-919	-899	-880	-917	-954	-977	-1000	-991
00000470	-982	-954	-926	-914	-903	-874	-846	-769
00000478	-821	-763	-705	-319	-61	+387	+963	+963
00000480	+700	+708	+717	+725	+734	+727	+719	+760
00000488	+801	+727	+910	-619	-868	-871	-363	-910
00000490	-946	-911	-876	-809	-742	-715	-688	-629
00000498	-571	-552	-533	-594	-911	-656	-401	-434
000004A0	-468	-601	+1057	+988	+919	+458	-1027	-784
000004A8	-798	-789	-781	-853	-925	-940	-956	-972
000004B0	-988	-981	-974	-967	-961	-932	-903	-874
000004B8	-846	-774	-702	-502	-46	+498	+1042	+1042
000004C0	+686	+697	+709	+720	+732	+722	+711	+741
000004C8	+771	+882	+866	-1102	-766	-805	-589	-637
000004D0	-941	-882	-823	-780	-737	-650	-563	-556
000004D8	-550	-497	-443	-526	-865	-697	-402	-354
000004E0	-436	-153	+1025	+964	+1031	-75	-798	-673
000004E8	-677	-663	-650	-708	-767	-799	-832	-865
000004F0	-898	-912	-926	-940	-954	-941	-928	-883
000004F8	-839	-785	-731	-717	+577	+1201	+929	+929
00000500	+672	+686	+701	+716	+731	+717	+704	+723
00000508	+742	+782	+310	-945	-921	-868	-816	-364
00000510	-936	-853	-770	-751	-733	-714	-695	-612
00000518	-530	-442	-354	-458	-819	-739	-403	-275
00000520	-404	+295	+994	+941	+1144	-609	-570	-563
00000528	-556	-537	-519	-564	-610	-659	-709	-758
00000530	-808	-843	-878	-913	-948	-951	-954	-893
00000538	-832	-796	-760	-932	+1200	+1008	+1072	+1072
00000540	+674	+686	+699	+712	+725	+731	+738	+745
00000548	+752	+864	-303	-919	-895	-867	-840	-501
00000550	-675	-855	-779	-759	-740	-691	-642	-689
00000558	-737	-604	-470	-305	-396	-398	-400	-305
00000560	-340	+682	+936	+966	+740	-575	-483	-463
00000568	-443	-434	-425	-464	-504	-530	-557	-615
00000570	-674	-760	-847	-902	-957	-950	-943	-896
00000578	-849	-802	-883	-372	+1163	+1067	+1099	+1099
00000580	+676	+686	+697	+708	+719	+746	+773	+768
00000588	+763	+947	-917	-893	-869	-867	-865	-639
00000590	-414	-857	-788	-768	-747	-668	-590	-511
00000598	-433	-382	-331	-281	-486	-185	-141	-208
000005A0	-276	+1069	+878	+991	+337	-541	-396	-363
000005A8	-330	-331	-332	-365	-399	-402	-405	-472
000005B0	-540	-678	-817	-892	-967	-949	-932	-899
000005B8	-866	-808	-1006	+188	+1126	+1126	+1126	+1126
000005C0	+678	+686	+695	+704	+713	+712	+711	+750
000005C8	+789	+453	-907	-851	-923	-954	-858	-817
000005D0	-393	-843	-909	-856	-802	-685	-569	-460
000005D8	-352	-328	-304	-192	-208	-116	-154	-238
000005E0	+188	+984	+884	+1016	-2	-419	-325	-303

000005E8	-281	-292	-303	-330	-357	-369	-381	-481
000005F0	-582	-716	-851	-921	-992	-988	-985	-942
000005F8	-899	-1006	-1113	+1076	+1089	+1097	+1105	+1105
00000600	+680	+687	+694	+701	+708	+679	+650	+733
00000608	+816	-40	-897	-809	-978	-1042	-851	-995
00000610	-372	-445	-263	-176	-90	-191	-293	-410
00000618	-528	-402	-277	-231	-186	-176	-167	-269
00000620	+652	+899	+891	+1042	-342	-298	-255	-243
00000628	-232	-253	-274	-295	-316	-337	-358	-491
00000630	-624	-754	-885	-951	-1018	-1028	-1039	-985
00000638	-932	-948	-708	+1196	+1052	+1068	+1084	+1084
00000640	+673	+679	+685	+691	+698	+697	+696	+776
00000648	+855	-588	-881	-1101	-682	-232	+345	+971
00000650	+956	+873	+918	+908	+897	+944	+991	+887
00000658	+782	+274	-234	-149	-193	-195	-199	-73
00000660	+947	+960	+973	+642	-200	-198	-196	-210
00000668	-225	-239	-253	-284	-314	-361	-407	-534
00000670	-660	-848	-1037	-1041	-1045	-1064	-1084	-1015
00000678	-947	-1014	+71	+1140	+1057	+1041	+1025	+1025
00000680	+666	+671	+677	+682	+688	+716	+743	+691
00000688	+639	-881	-97	+654	+894	+833	+773	+761
00000690	+749	+784	+820	+840	+860	+800	+740	+776
00000698	+812	+950	+1089	+572	-200	-215	-231	-6
000006A0	+987	+893	+1055	+242	-59	-99	-138	-178
000006A8	-218	-225	-233	-273	-313	-385	-457	-449
000006B0	-441	-303	-165	-235	-305	-717	-1129	-1045
000006B8	-962	-1080	+850	+1084	+1062	+1014	+966	+966
000006C0	+659	+663	+668	+673	+678	+702	+726	+710
000006C8	+694	+690	+814	+874	+678	+747	+817	+815
000006D0	+813	+775	+866	+844	+823	+864	+904	+865
000006D8	+826	+843	+860	+974	+960	+437	-215	+181
000006E0	+962	+882	+929	+74	-14	-47	-80	-145
000006E8	-211	-211	-213	-278	-344	-185	-154	-140
000006F0	-125	-285	-445	-429	-413	-281	-150	-539
000006F8	-929	-818	+1085	+1148	+1083	+1059	+1035	+1035
00000700	+652	+656	+660	+664	+669	+689	+709	+729
00000708	+750	+726	+702	+710	+718	+790	+862	+742
00000710	+622	+511	+656	+593	+531	+544	+557	+698
00000718	+840	+864	+888	+864	+841	+961	+825	+881
00000720	+938	+871	+804	-94	+31	+4	-22	-113
00000728	-204	-198	-193	-284	-375	-113	-108	-215
00000730	-322	-523	-725	-751	-777	-614	-452	-290
00000738	-128	-428	+808	+956	+1104	+1104	+1104	+1104
00000740	+645	+652	+659	+667	+675	+688	+702	+635
00000748	+697	+762	+827	+884	+942	+901	+860	+715
00000750	+570	+513	+584	+518	+454	+350	+245	+165
00000758	+86	+436	+787	+762	+865	+995	+869	+887
00000760	+905	+957	+496	-59	+24	-37	-98	-135
00000768	-173	-203	-235	-162	-89	-106	-251	-405
00000770	-558	-636	-715	-818	-920	-911	-775	-623
00000778	-343	+597	+513	+805	+1097	+1097	+1097	+1097
00000780	+638	+648	+659	+670	+681	+688	+695	+670
00000788	+901	+927	+953	+931	+910	+884	+858	+688
00000790	+519	+515	+512	+444	+377	+284	+190	+145
00000798	+100	+9	-81	+276	+890	+1030	+913	+893
000007A0	+873	+1043	+189	-25	+17	-78	-174	-158
000007A8	-142	-209	-277	-168	-60	-228	-395	-467
000007B0	-539	-622	-705	-757	-808	-953	-843	-828
000007B8	-558	+982	+986	+1038	+1090	+1090	+1090	+1090
000007C0	+631	+644	+659	+673	+687	+679	+672	+816
000007C8	+960	+963	+967	+938	+910	+851	+792	+629
000007D0	+467	+453	+440	+362	+284	+218	+151	+108
000007D8	+66	+22	-21	-49	+51	+400	+1005	+939
000007E0	+872	+713	+1065	+458	-21	-95	-170	-196
000007E8	-223	-230	-239	-118	-127	-261	-395	-481
000007F0	-567	-759	-823	-880	-936	-723	-1022	-913
000007F8	-677	+1127	+1139	+1111	+1083	+1083	+1083	+1083
00000800	+624	+641	+659	+676	+694	+671	+649	+962
00000808	+1020	+1000	+981	+945	+910	+818	+727	+571
00000810	+416	+392	+368	+280	+192	+152	+112	+72

00000818	+32	+35	+38	+9	-20	+27	+842	+857
00000820	+872	+895	+918	+941	+964	+399	-166	-235
00000828	-304	-252	-201	-69	-194	-294	-395	-495
00000830	-596	-897	-942	-1003	-1064	-1133	-434	+409
00000838	+1252	+1144	+1036	+1056	+1076	+1076	+1076	+1076
00000840	+619	+631	+645	+666	+687	+650	+742	+1001
00000848	+1004	+986	+969	+935	+902	+804	+705	+559
00000850	+413	+375	+338	+252	+167	+136	+106	+75
00000858	+45	+34	+24	+5	-13	+241	+879	+885
00000860	+892	+1016	+885	+930	+975	+994	+1014	+442
00000868	-130	-578	-130	-154	-307	-461	-487	-705
00000870	-924	-1031	-1009	-348	+313	+1030	+1235	+1136
00000878	+1038	+1025	+1013	+1040	+1068	+1068	+1068	+1068
00000880	+614	+622	+631	+656	+681	+630	+835	+1040
00000888	+989	+973	+958	+926	+895	+790	+684	+547
00000890	+410	+359	+308	+225	+142	+121	+100	+79
00000898	+59	+34	+10	+2	-6	+455	+916	+914
000008A0	+912	+114	+853	+919	+986	+950	+915	+991
000008A8	+1068	+1016	+708	+528	+348	+140	+188	+364
000008B0	+540	+883	+1227	+1202	+1178	+1017	+1113	+1096
000008B8	+1080	+1035	+990	+1025	+1060	+1060	+1060	+1060
000008C0	+609	+613	+617	+646	+675	+617	+944	+1030
000008C8	+989	+967	+946	+917	+888	+775	+663	+535
000008D0	+407	+342	+278	+197	+117	+106	+94	+83
000008D8	+72	+58	+44	-34	+16	+653	+905	+974
000008E0	+788	-100	-91	+452	+997	+978	+959	+940
000008E8	+922	+1002	+954	+1002	+1051	+1021	+1119	+1097
000008F0	+1076	+1021	+967	+1185	+1019	+1348	+910	+184
000008F8	+1122	+1060	+999	+1025	+1052	+1052	+1052	+1052
00000900	+604	+604	+604	+636	+669	+605	+1053	+1021
00000908	+990	+962	+935	+908	+881	+761	+642	+523
00000910	+404	+326	+248	+170	+93	+91	+89	+87
00000918	+86	+82	+78	+58	+295	+979	+895	+907
00000920	+408	+70	-12	-14	-16	+494	+1004	+1018
00000928	+1032	+988	+945	+965	+986	+1006	+1027	+1063
00000930	+1100	+1160	+1220	+1040	+92	-880	-1596	+168
00000938	+1164	+1086	+1008	+1026	+1044	+1044	+1044	+1044
00000940	+611	+607	+604	+633	+662	+729	+1052	+1023
00000948	+994	+972	+951	+930	+909	+806	+703	+568
00000950	+433	+357	+282	+223	+164	+147	+131	+115
00000958	+99	+240	+382	+355	+713	+1043	+860	+846
00000960	+64	-18	+27	-7	-41	-54	-67	+167
00000968	+402	+646	+891	+1136	+1125	+1098	+944	+678
00000970	+284	-381	-1047	-1505	-1323	-1465	-1352	+1152
00000978	+1098	+1079	+1061	+1058	+1056	+1056	+1056	+1056
00000980	+618	+611	+605	+630	+656	+854	+1051	+1025
00000988	+999	+983	+968	+953	+938	+851	+764	+613
00000990	+462	+389	+316	+276	+235	+204	+174	+143
00000998	+113	+143	+174	+141	+620	+851	+826	+913
000009A0	-24	+21	+67	+0	-66	-90	-115	-171
000009A8	-228	-335	-442	-101	-272	-473	-930	-859
000009B0	-1044	-1155	-1267	-1234	-1202	-1155	-853	+1241
000009B8	+1032	+1073	+1114	+1091	+1068	+1068	+1068	+1068
000009C0	+625	+615	+605	+627	+650	+978	+1050	+1027
000009C8	+1003	+978	+953	+928	+903	+848	+793	+642
000009D0	+491	+420	+350	+328	+306	+277	+248	+219
000009D8	+190	+206	+222	+358	+879	+891	+903	+547
000009E0	-64	-35	-5	-48	-91	-126	-162	-214
000009E8	-266	-380	-495	-290	-85	-516	-436	-988
000009F0	-900	-1009	-1118	-1171	-1225	-1325	-17	+1154
000009F8	+1046	+1058	+1071	+1075	+1080	+1080	+1080	+1080
00000A00	+632	+619	+606	+625	+644	+1103	+1050	+1029
00000A08	+1008	+973	+938	+903	+868	+845	+822	+671
00000A10	+520	+452	+385	+381	+378	+350	+323	+295
00000A18	+268	+269	+271	+448	+882	+803	+981	+182
00000A20	-104	-91	-78	-97	-116	-163	-210	-257
00000A28	-304	-426	-549	-735	-410	-48	-455	-477
00000A30	-1012	-1119	-1226	-1237	-1248	-1495	+818	+1067
00000A38	+1060	+1044	+1028	+1060	+1092	+1092	+1092	+1092
00000A40	+599	+595	+592	+613	+762	+1032	+1046	+1004

00000A48	+962	+943	+925	+890	+856	+841	+826	+732
00000A50	+637	+565	+493	+468	+444	+420	+396	+371
00000A58	+348	+342	+337	+667	+870	+919	+969	+27
00000A60	-147	-147	-148	-149	-150	-207	-263	-320
00000A68	-377	-473	-570	-866	-906	-366	-83	-519
00000A70	-443	-617	-790	-804	-818	-579	+1196	+1139
00000A78	+1083	+1059	+1036	+1060	+1085	+1085	+1085	+1085
00000A80	+566	+572	+579	+602	+881	+962	+1043	+980
00000A88	+917	+914	+912	+878	+844	+837	+831	+793
00000A90	+755	+678	+601	+556	+511	+490	+469	+448
00000A98	+428	+415	+403	+887	+859	+908	+702	-256
00000AA0	-190	-204	-219	-201	-184	-251	-317	-384
00000AA8	-451	-521	-591	-741	-891	-1069	-991	-305
00000AB0	-131	-243	-355	-372	-388	+81	+1062	+956
00000AB8	+1106	+1075	+1044	+1061	+1078	+1078	+1078	+1078
00000AC0	+597	+573	+550	+591	+888	+963	+1039	+931
00000AC8	+951	+989	+899	+921	+816	+809	+804	+806
00000AD0	+808	+758	+709	+675	+642	+608	+574	+549
00000AD8	+524	+472	+549	+890	+847	+977	+211	-283
00000AE0	-265	-277	-289	-285	-282	-343	-403	-463
00000AE8	-524	-616	-708	-839	-971	-1171	-1243	-1250
00000AF0	-1386	-1037	-688	-835	-1110	+229	+1184	+1068
00000AF8	+1081	+1066	+1052	+1061	+1071	+1071	+1071	+1071
00000B00	+628	+574	+521	+580	+895	+965	+1036	+883
00000B08	+986	+1064	+887	+965	+788	+782	+777	+819
00000B10	+862	+839	+817	+795	+773	+726	+680	+650
00000B18	+620	+530	+696	+894	+836	+1046	-280	-310
00000B20	-340	-350	-360	-370	-381	-435	-489	-543
00000B28	-598	-711	-825	-938	-1052	-1145	-1239	-1428
00000B30	-1362	-1447	-1533	-1555	-1833	+1273	+1051	+1053
00000B38	+1056	+1058	+1060	+1062	+1064	+1064	+1064	+1064
00000B40	+607	+585	+564	+726	+889	+846	+930	+903
00000B48	+876	+866	+856	+901	+820	+879	+811	+855
00000B50	+899	+833	+895	+877	+859	+814	+769	+748
00000B58	+728	+676	+752	+876	+872	+722	-451	-449
00000B60	-447	-453	-460	-467	-475	-535	-595	-655
00000B68	-715	-820	-926	-1031	-1136	-1215	-1295	-1406
00000B70	-1389	-1464	-1540	-1639	-1099	+1149	+1093	+1062
00000B78	+1031	+1040	+1050	+1059	+1069	+1069	+1069	+1069
00000B80	+586	+596	+607	+873	+884	+855	+1081	+1180
00000B88	+1023	+796	+825	+838	+852	+977	+846	+891
00000B90	+937	+827	+973	+960	+946	+902	+859	+847
00000B98	+836	+822	+808	+858	+909	+399	-622	-588
00000BA0	-554	-557	-561	-565	-569	-635	-701	-767
00000BA8	-833	-930	-1027	-1124	-1221	-1286	-1351	-1384
00000BB0	-1417	-1482	-1547	-1596	-109	+1153	+1136	+1071
00000BB8	+1006	+1023	+1040	+1057	+1074	+1074	+1074	+1074
00000BC0	+597	+575	+682	+892	+847	+991	+1136	+720
00000BC8	+1073	+990	+906	+919	+932	+954	+849	+911
00000BD0	+974	+909	+971	+994	+1017	+966	+916	+906
00000BD8	+896	+856	+816	+824	+961	-268	-729	-695
00000BE0	-661	-677	-694	-710	-727	-783	-839	-894
00000BE8	-950	-1039	-1128	-1216	-1305	-1372	-1439	-1457
00000BF0	-1476	-1499	-1522	-1888	+816	+1149	+970	+1007
00000BF8	+1045	+1053	+1062	+1070	+1079	+1079	+1079	+1079
00000C00	+608	+554	+757	+911	+810	+1000	+935	+901
00000C08	+612	+800	+732	+616	+500	+548	+596	+676
00000C10	+756	+863	+970	+1029	+1088	+1031	+974	+965
00000C18	+956	+890	+825	+791	+1014	-935	-837	-802
00000C20	-768	-797	-827	-856	-886	-931	-977	-1022
00000C28	-1068	-1148	-1229	-1309	-1390	-1458	-1527	-1531
00000C30	-1536	-1516	-1497	-1413	+1230	+1017	+1061	+1072
00000C38	+1084	+1084	+1084	+1084	+1084	+1084	+1084	+1084
00000C40	+595	+635	+805	+878	+823	+761	+572	+662
00000C48	+624	+682	+612	+605	+599	+627	+783	+715
00000C50	+647	+702	+757	+900	+1043	+1037	+1031	+1001
00000C58	+972	+827	+810	+905	+489	-998	-951	-944
00000C60	-937	-963	-991	-1018	-1045	-1081	-1118	-1154
00000C68	-1190	-1256	-1323	-1389	-1455	-1502	-1550	-1557
00000C70	-1564	-1519	-1603	-542	+1158	+1052	+1074	+1079

00000C78	+1085	+1087	+1089	+1091	+1093	+1093	+1093	+1093
00000C80	+582	+589	+597	+589	+581	+651	+721	+679
00000C88	+637	+692	+748	+723	+699	+579	+714	+754
00000C90	+794	+797	+800	+771	+743	+916	+1089	+1038
00000C98	+988	+764	+796	+892	-291	-1190	-1066	-1086
00000CA0	-1106	-1130	-1155	-1180	-1205	-1232	-1259	-1286
00000CA8	-1313	-1365	-1417	-1469	-1521	-1547	-1573	-1583
00000CB0	-1593	-1523	-1709	+329	+1087	+1087	+1087	+1087
00000CB8	+1087	+1091	+1095	+1099	+1103	+1103	+1103	+1103
00000CC0	+601	+615	+629	+636	+643	+660	+678	+671
00000CC8	+665	+702	+740	+737	+735	+674	+741	+761
00000CD0	+781	+788	+795	+786	+778	+794	+811	+859
00000CD8	+908	+845	+910	+847	-1007	-1278	-1165	-1188
00000CE0	-1211	-1305	-1399	-1350	-1301	-1334	-1368	-1401
00000CE8	-1435	-1473	-1511	-1548	-1586	-1591	-1596	-1576
00000CF0	-1557	-1662	-1639	+1128	+1079	+1073	+1068	+1078
00000CF8	+1088	+1094	+1100	+1106	+1112	+1112	+1112	+1112
00000D00	+620	+641	+662	+683	+705	+670	+635	+664
00000D08	+694	+713	+732	+751	+771	+770	+769	+768
00000D10	+768	+779	+791	+802	+814	+801	+789	+808
00000D18	+828	+798	+768	+802	-1468	-1238	-1264	-1290
00000D20	-1316	-1352	-1388	-1392	-1397	-1437	-1477	-1517
00000D28	-1558	-1581	-1605	-1628	-1652	-1635	-1619	-1570
00000D30	-1522	-1545	-1057	+1159	+1072	+1060	+1049	+1069
00000D38	+1090	+1098	+1106	+1114	+1122	+1122	+1122	+1122
00000D40	+615	+627	+640	+653	+666	+651	+636	+669
00000D48	+702	+718	+734	+750	+766	+767	+768	+769
00000D50	+771	+781	+792	+802	+813	+800	+788	+808
00000D58	+828	+903	+979	-208	-1396	-1398	-1272	-1290
00000D60	-1309	-1343	-1378	-1397	-1416	-1450	-1484	-1518
00000D68	-1552	-1572	-1593	-1589	-1585	-1574	-1564	-1529
00000D70	-1494	-1610	-63	+1140	+1064	+1042	+1020	+1053
00000D78	+1087	+1094	+1101	+1108	+1115	+1115	+1115	+1115
00000D80	+610	+614	+619	+623	+628	+633	+637	+674
00000D88	+711	+723	+736	+749	+762	+765	+768	+771
00000D90	+774	+783	+793	+803	+813	+800	+788	+808
00000D98	+828	+881	+935	+829	-1069	-1431	-1281	-1291
00000DA0	-1302	-1335	-1369	-1402	-1436	-1464	-1491	-1519
00000DA8	-1547	-1564	-1581	-1550	-1519	-1514	-1509	-1488
00000DB0	-1467	-1676	+931	+1122	+1057	+1024	+991	+1038
00000DB8	+1085	+1091	+1097	+1103	+1109	+1109	+1109	+1109
00000DC0	+605	+617	+629	+641	+654	+662	+670	+695
00000DC8	+719	+728	+738	+748	+758	+762	+767	+772
00000DD0	+777	+785	+794	+803	+812	+808	+804	+816
00000DD8	+828	+859	+891	+842	+922	+264	-1418	-1364
00000DE0	-1311	-1327	-1343	-1359	-1376	-1381	-1386	-1496
00000DE8	-1477	-1515	-1553	-1406	-1388	-1613	-1454	-1567
00000DF0	-1679	-485	+1093	+1135	+1049	+1037	+1026	+1054
00000DF8	+1082	+1087	+1092	+1097	+1102	+1102	+1102	+1102
00000E00	+600	+620	+640	+660	+680	+692	+704	+716
00000E08	+728	+734	+741	+747	+754	+760	+767	+773
00000E10	+780	+788	+796	+804	+812	+816	+820	+824
00000E18	+828	+837	+847	+856	+866	+935	+493	-413
00000E20	-1320	-1319	-1318	-1317	-1316	-1299	-1282	-1473
00000E28	-1408	-1466	-1525	-1391	-1514	-1584	-887	+146
00000E30	+1180	+1089	+999	+1020	+1042	+1051	+1061	+1070
00000E38	+1080	+1084	+1088	+1092	+1096	+1096	+1096	+1096
00000E40	+616	+633	+650	+667	+684	+695	+706	+717
00000E48	+728	+734	+741	+747	+754	+760	+767	+773
00000E50	+780	+789	+798	+807	+816	+820	+824	+828
00000E58	+832	+822	+814	+852	+892	+1050	+954	+649
00000E60	+344	+535	-297	-793	-1290	-1445	-1601	-1140
00000E68	-1320	-1029	-738	-47	+516	+1139	+1122	+1104
00000E70	+1088	+1065	+1044	+1045	+1048	+1055	+1064	+1071
00000E78	+1080	+1084	+1088	+1092	+1096	+1096	+1096	+1096
00000E80	+632	+646	+660	+674	+688	+698	+708	+718
00000E88	+728	+734	+741	+747	+754	+760	+767	+773
00000E90	+780	+790	+800	+810	+820	+824	+828	+832
00000E98	+836	+808	+781	+849	+918	+910	+903	+943
00000EA0	+984	+982	+980	+1010	+1040	+968	+896	+600

00000EA8	+816	+944	+1073	+1041	+1010	+1046	+1083	+1039
00000EB0	+996	+1042	+1089	+1071	+1054	+1060	+1067	+1073
00000EB8	+1080	+1084	+1088	+1092	+1096	+1096	+1096	+1096
00000EC0	+648	+659	+670	+681	+692	+701	+710	+719
00000EC8	+728	+734	+741	+747	+754	+760	+767	+773
00000ED0	+780	+791	+802	+813	+824	+828	+832	+836
00000ED8	+840	+833	+828	+869	+912	+905	+900	+917
00000EE0	+936	+940	+945	+909	+874	+997	+225	+468
00000EE8	+456	+357	+1028	+1009	+992	+1017	+1044	+1029
00000EF0	+1016	+1042	+1070	+1064	+1060	+1064	+1070	+1074
00000EF8	+1080	+1084	+1088	+1092	+1096	+1096	+1096	+1096
00000F00	+664	+672	+680	+688	+696	+704	+712	+720
00000F08	+728	+734	+741	+747	+754	+760	+767	+773
00000F10	+780	+792	+804	+816	+828	+832	+836	+840
00000F18	+844	+859	+875	+890	+906	+901	+897	+892
00000F20	+888	+899	+910	+937	+964	+899	+1090	+337
00000F28	+608	+1051	+983	+978	+974	+989	+1005	+1020
00000F30	+1036	+1043	+1051	+1058	+1066	+1069	+1073	+1076
00000F38	+1080	+1084	+1088	+1092	+1096	+1096	+1096	+1096
00000F40	+664	+672	+680	+688	+696	+704	+712	+720
00000F48	+728	+734	+741	+747	+754	+760	+767	+773
00000F50	+780	+792	+804	+816	+828	+832	+836	+840
00000F58	+844	+859	+875	+890	+906	+901	+897	+892
00000F60	+888	+899	+910	+929	+948	+875	+930	+1169
00000F68	+896	+1067	+983	+978	+974	+989	+1005	+1020
00000F70	+1036	+1043	+1051	+1058	+1066	+1069	+1073	+1076
00000F78	+1080	+1084	+1088	+1092	+1096	+1096	+1096	+1096
00000F80	+664	+672	+680	+688	+696	+704	+712	+720
00000F88	+728	+734	+741	+747	+754	+760	+767	+773
00000F90	+780	+792	+804	+816	+828	+832	+836	+840
00000F98	+844	+859	+875	+890	+906	+901	+897	+892
00000FA0	+888	+899	+910	+921	+932	+979	+1026	+977
00000FA8	+928	+955	+983	+978	+974	+989	+1005	+1020
00000FB0	+1036	+1043	+1051	+1058	+1066	+1069	+1073	+1076
00000FB8	+1080	+1084	+1088	+1092	+1096	+1096	+1096	+1096
00000FC0	+664	+672	+680	+688	+696	+704	+712	+720
00000FC8	+728	+734	+741	+747	+754	+760	+767	+773
00000FD0	+780	+792	+804	+816	+828	+832	+836	+840
00000FD8	+844	+859	+875	+890	+906	+901	+897	+892
00000FE0	+888	+899	+910	+921	+932	+979	+1026	+977
00000FE8	+928	+955	+983	+978	+974	+989	+1005	+1020
00000FF0	+1036	+1043	+1051	+1058	+1066	+1069	+1073	+1076
00000FF8	+1080	+1084	+1088	+1092	+1096	+1096	+1096	+1096

4.2.4.3.6 Reconstructed Cr Component

The following is a dump of the reconstructed Cb component.

The sample data for 11.5 fixed-point integers (RDP 7.1/8.0) is:

00000000	-2112	-2114	-2116	-2118	-2120	-2122	-2124	-2126
00000008	-2128	-2118	-2108	-2098	-2088	-2150	-2212	-2146
00000010	-2080	-2100	-2120	-2140	-2160	-2164	-2168	-2172
00000018	-2176	-2092	-2008	-2052	-2096	-2132	-2168	-2076
00000020	-1984	-2088	-2192	-2168	-2144	-2136	-2128	-2120
00000028	-2112	-2126	-2140	-2154	-2168	-2150	-2132	-2114
00000030	-2096	-2096	-2096	-2096	-2096	-2096	-2096	-2096
00000038	-2096	-2080	-2064	-2048	-2032	-2032	-2032	-2032
00000040	-2128	-2113	-2098	-2115	-2132	-2133	-2134	-2135
00000048	-2137	-2127	-2117	-2107	-2097	-2117	-2137	-2125
00000050	-2114	-2134	-2154	-2159	-2163	-2135	-2108	-2128
00000058	-2149	-2132	-2116	-2116	-2115	-2115	-2114	-2098
00000060	-2082	-2112	-2142	-2141	-2139	-2133	-2128	-2122
00000068	-2117	-2127	-2137	-2147	-2158	-2146	-2134	-2122
00000070	-2111	-2108	-2106	-2104	-2102	-2101	-2101	-2101
00000078	-2101	-2087	-2073	-2059	-2045	-2045	-2045	-2045
00000080	-2144	-2112	-2080	-2112	-2145	-2145	-2145	-2145

00000088	-2146	-2136	-2126	-2116	-2107	-2085	-2063	-2105
00000090	-2148	-2168	-2189	-2178	-2167	-2107	-2048	-2085
00000098	-2122	-2173	-2225	-2180	-2135	-2098	-2061	-2120
000000A0	-2180	-2136	-2093	-2114	-2135	-2131	-2128	-2125
000000A8	-2122	-2128	-2135	-2141	-2148	-2142	-2137	-2131
000000B0	-2126	-2121	-2117	-2112	-2108	-2107	-2107	-2106
000000B8	-2106	-2094	-2082	-2070	-2058	-2058	-2058	-2058
000000C0	-2160	-2111	-2062	-2109	-2157	-2156	-2155	-2154
000000C8	-2155	-2145	-2135	-2125	-2116	-2132	-2148	-2132
000000D0	-2118	-2154	-2191	-2181	-2170	-2494	-2308	-2393
000000D8	-2479	-2470	-2461	-2243	-2282	-2353	-2167	-2174
000000E0	-2182	-2160	-2139	-2135	-2130	-2128	-2128	-2127
000000E8	-2127	-2129	-2132	-2134	-2138	-2138	-2139	-2139
000000F0	-2141	-2133	-2127	-2120	-2114	-2112	-2112	-2111
000000F8	-2111	-2101	-2091	-2081	-2071	-2071	-2071	-2071
00000100	-2176	-2110	-2045	-2107	-2170	-2168	-2167	-2165
00000108	-2164	-2154	-2145	-2135	-2126	-2180	-2235	-2161
00000110	-2088	-2141	-2195	-2440	-2686	-2371	-1033	-398
00000118	+236	+305	+375	-3	-894	-2096	-2787	-2485
00000120	-2184	-2185	-2187	-2156	-2126	-2127	-2129	-2130
00000128	-2132	-2131	-2130	-2129	-2128	-2135	-2142	-2149
00000130	-2156	-2147	-2138	-2129	-2120	-2119	-2118	-2117
00000138	-2116	-2108	-2100	-2092	-2084	-2084	-2084	-2084
00000140	-2112	-2085	-2058	-2112	-2166	-2067	-2225	-2190
00000148	-2157	-2107	-2057	-2104	-2151	-2119	-2088	-2632
00000150	-2666	-2263	-837	+844	+2526	+3327	+2847	+2847
00000158	+2847	+2726	+2606	+2967	+3070	+2968	+2867	+397
00000160	-2074	-2745	-2137	-2281	-2169	-2202	-2236	-2190
00000168	-2145	-2145	-2147	-2148	-2150	-2152	-2156	-2159
00000170	-2163	-2159	-2156	-2152	-2150	-2130	-2111	-2123
00000178	-2137	-2127	-2117	-2107	-2097	-2097	-2097	-2097
00000180	-2048	-2060	-2073	-2118	-2163	-1967	-2284	-2217
00000188	-2150	-2060	-1971	-2074	-2177	-2315	-2454	-1057
00000190	+1364	+2990	+2568	+2593	+2619	+2369	+2631	+2508
00000198	+2386	+2332	+2278	+2352	+2427	+2913	+2888	+3022
000001A0	+3156	+1302	-2088	-2406	-2213	-2279	-2345	-2251
000001A8	-2158	-2161	-2165	-2168	-2172	-2171	-2171	-2170
000001B0	-2170	-2172	-2175	-2177	-2180	-2142	-2105	-2131
000001B8	-2158	-2146	-2134	-2122	-2110	-2110	-2110	-2110
000001C0	-2112	-2163	-2215	-2235	-2255	-1994	-2247	-2194
000001C8	-2143	-2109	-2076	-2123	-2170	-2270	+700	+3527
000001D0	+2770	+2035	+2325	+2293	+2263	+2178	+2350	+2265
000001D8	+2181	+2129	+2078	+2154	+2231	+2521	+2557	+2559
000001E0	+2562	+3221	+3113	+140	-2832	-2034	-2261	-2199
000001E8	-2139	-2160	-2182	-2188	-2194	-2189	-2185	-2181
000001F0	-2177	-2185	-2193	-2201	-2210	-2154	-2098	-2138
000001F8	-2179	-2165	-2151	-2137	-2123	-2123	-2123	-2123
00000200	-1664	-1755	-1846	-1841	-1836	-1767	-2210	-2173
00000208	-2136	-2159	-2182	-2173	-2164	-2739	+2830	+2735
00000210	+2640	+2361	+2082	+1995	+1908	+1989	+2070	+2023
00000218	+1976	+1927	+1878	+1957	+2036	+2131	+2226	+2353
00000220	+2480	+2581	+2682	+2943	+2692	-2815	-2178	-2149
00000228	-2120	-2160	-2200	-2208	-2216	-2208	-2200	-2192
00000230	-2184	-2198	-2212	-2226	-2240	-2166	-2092	-2146
00000238	-2200	-2184	-2168	-2152	-2136	-2136	-2136	-2136
00000240	-2096	-2166	-2238	-2228	-2220	-2087	-2210	-2173
00000248	-2137	-2189	-2243	-2152	-2318	-2031	+3375	+2861
00000250	+2605	+2305	+2007	+1851	+1697	+1756	+1815	+1810
00000258	+1806	+1756	+1707	+1754	+1801	+1911	+2023	+2149
00000260	+2277	+2299	+2323	+2729	+1345	-2439	-2129	-2217
00000268	-2307	-2349	-2136	-2179	-2222	-2223	-2224	-2193
00000270	-2162	-2171	-2180	-2190	-2199	-2198	-2198	-2213
00000278	-2229	-2172	-2115	-2170	-2225	-2113	-2257	-2257
00000280	-2016	-2067	-2118	-2105	-2093	-2152	-2211	-2174
00000288	-2138	-2221	-2305	-2132	-2472	+212	+2897	+2477
00000290	+2570	+2251	+1932	+1709	+1487	+1524	+1561	+1598
00000298	+1636	+1586	+1537	+1552	+1567	+1693	+1820	+1947
000002A0	+2074	+2019	+1964	+2261	-514	-2321	-2080	-2031
000002A8	-1982	-2283	-2073	-2151	-2229	-2238	-2248	-2194
000002B0	-2140	-2144	-2149	-2154	-2159	-2231	-2304	-2281

000002B8	-2258	-2160	-2062	-2188	-2314	-2090	-2378	-2378
000002C0	-2064	-2094	-2126	-2125	-2125	-2152	-2179	-2159
000002C8	-2139	-2204	-2270	-2144	-2530	+1688	+2834	+2460
000002D0	+2343	+2147	+1953	+1678	+1404	+1387	+1370	+1418
000002D8	+1466	+1416	+1366	+1349	+1332	+1442	+1553	+1663
000002E0	+1775	+1817	+1861	+2415	-2405	-2457	-1999	-2035
000002E8	-281	-1464	-2393	-2378	-2363	-2301	-2240	-2195
000002F0	-2150	-2165	-2181	-2182	-2182	-2199	-2218	-2188
000002F8	-2159	-2756	-2329	-1934	-2307	-2627	-2179	-2307
00000300	-2112	-2123	-2135	-2146	-2158	-2153	-2149	-2144
00000308	-2140	-2188	-2236	-2156	-2588	+3164	+2772	+2444
00000310	+2116	+2045	+1975	+1648	+1322	+1251	+1181	+1238
00000318	+1296	+1246	+1197	+1147	+1098	+1192	+1287	+1381
00000320	+1476	+1617	+1758	+1291	-2760	-2083	-2430	-1273
00000328	-628	-647	-667	-1582	-2498	-2365	-2233	-2196
00000330	-2160	-2187	-2215	-2210	-2206	-2169	-2133	-2096
00000338	-2060	-280	-548	-2448	-1788	-860	-1980	-2236
00000340	-2112	-2120	-2130	-2140	-2150	-2145	-2141	-2137
00000348	-2133	-2147	-2161	-2079	-718	+3207	+2525	+2291
00000350	+2057	+1941	+1827	+1553	+1279	+1174	+1070	+1094
00000358	+1118	+1044	+970	+976	+983	+1001	+1019	+1165
00000360	+1313	+1305	+1555	-212	-2491	-2189	-2401	-867
00000368	-615	-642	-671	-603	-536	-1354	-2172	-2271
00000370	-2370	-2340	-2311	-2330	-2349	-2315	-2282	-2697
00000378	-1321	-420	-543	-394	-757	-741	-2261	-2261
00000380	-2112	-2119	-2127	-2135	-2143	-2138	-2134	-2130
00000388	-2126	-2106	-2087	-2259	+640	+2995	+2279	+2138
00000390	+1998	+1839	+1681	+1459	+1237	+1098	+960	+950
00000398	+940	+842	+744	+806	+869	+811	+753	+951
000003A0	+1150	+995	+1352	-1715	-2222	-2297	-2372	-463
000003A8	-602	-639	-676	-649	-623	-600	-577	-810
000003B0	-1044	-1214	-1384	-1426	-1469	-1183	-897	-483
000003B8	-582	-560	-538	-900	-750	-1134	-2542	-2286
000003C0	-2112	-2117	-2123	-2129	-2135	-2131	-2127	-2123
000003C8	-2119	-2017	-1916	-2886	+1262	+2014	+2256	+2097
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000003E8	-493	-522	-553	-566	-581	-677	-773	-661
000003F0	-550	-567	-585	-586	-588	-657	-727	-572
000003F8	-675	-668	-661	-798	-679	-1799	-2407	-2151
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00000408	-2112	-2185	-2258	-1723	+1884	+1035	+2234	+2057
00000410	+1880	+1634	+1388	+1270	+1152	+946	+740	+662
00000418	+584	+630	+676	+466	+1280	+654	+540	+554
00000420	+568	+757	-78	-2481	-2324	-2383	-906	-389
00000428	-384	-407	-430	-485	-540	-499	-458	-513
00000430	-568	-689	-810	-771	-732	-645	-558	-663
00000438	-768	-776	-784	-696	-608	-2464	-2272	-2016
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00000448	-2130	-2204	-2536	-84	+1856	+1148	+1209	+1701
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00000458	+407	+489	+572	+398	+1249	+662	+330	+383
00000460	+436	+589	-1304	-2350	-2117	-2615	+213	-12
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00000470	-562	-626	-691	-675	-661	-625	-590	-682
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00000480	-2096	-2104	-2113	-2121	-2130	-2086	-2043	-2095
00000488	-2148	-2225	-2815	+1555	+1829	+1519	+697	+1603
00000490	+1486	+1381	+1276	+1107	+938	+729	+520	+375
00000498	+230	+349	+468	+331	+1219	+670	+121	+212
000004A0	+304	+423	-2531	-2477	-2423	-1569	+309	-149
000004A8	-94	-125	-157	-157	-157	-256	-356	-456
000004B0	-556	-564	-573	-581	-590	-606	-623	-703
000004B8	-784	-832	-880	-384	+112	-1424	-2448	-2192
000004C0	-2088	-2098	-2109	-2119	-2131	-2099	-2068	-2100
000004C8	-2134	-2485	-2325	+2921	+2025	+1536	+1048	+1088
000004D0	+1385	+1270	+1156	+993	+831	+700	+570	+407
000004D8	+245	+256	+268	+343	+932	+662	+135	+185
000004E0	+236	-337	-2445	-2346	-2504	-793	+149	-75

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000004F0	-454	-454	-454	-518	-583	-619	-655	-723
000004F8	-792	-796	-800	-868	-1960	-2296	-2376	-2248
00000500	-2080	-2093	-2106	-2119	-2132	-2113	-2094	-2107
00000508	-2120	-2234	-813	+2752	+2222	+1555	+1401	+574
00000510	+1284	+1160	+1036	+880	+724	+672	+620	+440
00000518	+260	+164	+69	+357	+646	+654	+151	+159
00000520	+168	-1096	-2361	-2217	-2586	-18	-11	-3
00000528	+4	-4	-13	-21	-30	-110	-191	-271
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00000538	-800	-760	-720	-584	-2496	-2400	-2304	-2304
00000540	-2072	-2086	-2102	-2117	-2133	-2171	-2211	-2170
00000548	-2130	-2462	+1045	+2615	+2138	+1656	+1432	+807
00000550	+951	+1193	+924	+734	+545	+397	+250	+486
00000558	+723	+569	+416	+311	+207	+384	+305	+242
00000560	+180	-1825	-2295	-2348	-1891	+69	-19	-10
00000568	-3	-7	-12	-16	-22	-65	-107	-182
00000570	-258	-309	-361	-477	-593	-640	-688	-736
00000578	-784	-752	-720	-1200	-2448	-2384	-2320	-2320
00000580	-2064	-2081	-2099	-2116	-2134	-2231	-2329	-2234
00000588	-2140	-2691	+2902	+2478	+2055	+1759	+1464	+1041
00000590	+618	+1227	+812	+589	+366	+379	+392	+277
00000598	+162	+207	+253	+267	+281	+114	-52	+70
000005A0	+192	-2555	-2230	-2481	-1197	+156	-28	-19
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000005B0	-164	-275	-387	-498	-610	-649	-689	-728
000005B8	-768	-744	-720	-1816	-2400	-2368	-2336	-2336
000005C0	-2056	-2075	-2095	-2115	-2135	-2178	-2222	-2138
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000005D8	+177	+196	+217	+189	+162	+100	+39	+153
000005E0	-756	-2420	-2293	-2549	-502	+131	-4	-10
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000005F0	-198	-320	-444	-519	-595	-641	-689	-720
000005F8	-752	-768	-784	-2192	-2320	-2336	-2352	-2352
00000600	-2048	-2070	-2092	-2114	-2136	-2126	-2116	-2042
00000608	-2480	+52	+2584	+2108	+2144	+2028	+1400	+1444
00000610	+464	+78	-308	-470	-632	-394	-156	+18
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00000638	-736	-792	-848	-2568	-2240	-2304	-2368	-2368
00000640	-2046	-2068	-2091	-2113	-2136	-2121	-2105	-2186
00000648	-2523	+1999	+2681	+2740	+1518	+117	-1541	-2639
00000650	-2457	-2465	-2474	-2466	-2459	-2498	-2536	-2303
00000658	-2070	-995	+81	-76	+24	+35	+47	-150
00000660	-2394	-2422	-2450	-1806	+117	+85	+53	+21
00000668	-11	-11	-11	-11	-11	-11	-11	-107
00000670	-203	-404	-606	-615	-625	-610	-596	-693
00000678	-791	-757	-1491	-2401	-2287	-2303	-2319	-2319
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000006A0	-2572	-2302	-2544	-994	+43	+64	+86	+44
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000006C0	-2042	-2065	-2089	-2112	-2137	-2159	-2180	-2154
000006C8	-2129	-2458	-2532	-2604	-2166	-2218	-2272	-2293
000006D0	-2315	-2000	-2198	-2219	-2242	-2322	-2401	-2385
000006D8	-2370	-2285	-2201	-2452	-2704	-1411	+137	-1402
000006E0	-2174	-2502	-2830	+250	+0	+28	+55	+35
000006E8	+15	+3	-9	-21	-33	-45	-57	-101
000006F0	-145	-175	-206	-220	-235	-177	-120	-414
000006F8	-709	-191	-2489	-2547	-2349	-2349	-2349	-2349
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00000708	-2204	-2207	-2210	-2181	-2152	-2131	-2110	-2217
00000710	-1812	-1552	-2317	-2025	-1734	-1578	-1423	-1939

00000718	-2456	-2395	-2334	-2081	-2340	-2551	-2250	-2013
00000720	-2288	-2446	-2093	-43	-42	-8	+25	+26
00000728	+28	+10	-8	-26	-44	-62	-80	-98
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00000740	-2038	-2058	-2079	-2100	-2122	-2123	-2124	-2285
00000748	-2191	-2065	-1940	-1910	-1882	-2232	-2327	-2149
00000750	-1717	-1485	-2022	-1759	-1497	-1242	-987	-716
00000758	-446	-1226	-2007	-2723	-2160	-2330	-2245	-2175
00000760	-2362	-2338	-1034	+109	-28	-19	-10	+15
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00000778	-83	-1135	-1163	-1895	-2371	-2387	-2403	-2403
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000007E8	+67	+37	+7	-7	-21	-111	-201	-211
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00000810	-1560	-1479	-1398	-1189	-980	-811	-642	-473
00000818	-304	-217	-130	-75	-20	+27	-2486	-2311
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00000830	-256	-339	-422	-473	-524	-639	-754	-1637
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00000840	-2012	-2030	-2049	-2052	-2055	-2191	-2073	-1585
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00000858	-379	-243	-109	-181	+1	-606	-2493	-2283
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00000868	-278	-124	+30	+88	+145	+127	+109	+27
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00000888	-1966	-2201	-2436	-2639	-2842	-2545	-2248	-1823
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00000898	-454	-271	-88	-289	+22	-1239	-2500	-2257
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00000948	-2303	-2545	-2788	-2918	-3049	-2873	-2442	-2026
00000950	-1611	-1374	-1138	-965	-793	-732	-672	-707
00000958	-743	-847	-953	-2017	-2059	-2441	-2313	-2327
00000960	-295	+99	-19	+23	+65	+26	-13	-629
00000968	-1246	-1795	-2345	-2509	-2675	-2540	-2406	-1887
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00000978	-2409	-2413	-2417	-2389	-2361	-2361	-2361	-2361
00000980	-1944	-1998	-2052	-2074	-2097	-1767	-1949	-2163
00000988	-2378	-2619	-2860	-3005	-3150	-3163	-2664	-2197
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00000998	-882	-859	-836	-877	-1942	-2091	-2240	-2389
000009A0	+22	-18	-57	+32	+121	+14	-93	-9
000009A8	+76	+149	+221	+166	+110	+143	+175	+239
000009B0	+304	+379	+455	+530	+605	+676	+235	-2573
000009B8	-2310	-2398	-2486	-2414	-2342	-2342	-2342	-2342
000009C0	-1940	-2000	-2060	-2072	-2084	-1640	-1964	-2144
000009C8	-2325	-2532	-2740	-2899	-3059	-3052	-2790	-2319
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000009D8	-1021	-1077	-1135	-503	-2689	-2395	-2359	-1553
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000009E8	+86	+124	+162	+137	+111	+137	+163	+237
000009F0	+312	+393	+475	+525	+574	+654	-803	-2466
000009F8	-2339	-2383	-2427	-2375	-2323	-2323	-2323	-2323
00000A00	-1936	-2002	-2068	-2070	-2072	-1514	-1980	-2126
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00000A10	-1968	-1667	-1366	-1321	-1276	-1247	-1218	-1189
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00000A20	+16	+6	-4	+18	+40	+54	+68	+82
00000A28	+96	+100	+104	+108	+112	+132	+152	+236
00000A30	+320	+408	+496	+520	+544	+632	-1840	-2360
00000A38	-2368	-2368	-2368	-2336	-2304	-2304	-2304	-2304
00000A40	-1898	-1921	-1944	-2111	-1766	-1551	-1848	-1985
00000A48	-2122	-2318	-2515	-2664	-2813	-3074	-3079	-2828
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00000A58	-1362	-1246	-1131	-1879	-2372	-2532	-2693	+331
00000A60	+25	+40	+55	+54	+54	+71	+88	+105
00000A68	+123	+151	+180	+208	+237	+83	-70	+48
00000A70	+167	+248	+329	+346	+363	+733	-2738	-2577
00000A78	-2416	-2395	-2374	-2353	-2332	-2332	-2332	-2332
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00000A98	-1564	-1452	-1340	-2348	-2333	-2365	-1885	-157
00000AA0	+34	+74	+115	+91	+68	+88	+109	+129
00000AA8	+150	+203	+256	+309	+362	+291	+220	+117
00000AB0	+14	+88	+162	+172	+183	-702	-2612	-2282
00000AB8	-2464	-2422	-2380	-2370	-2360	-2360	-2360	-2360
00000AC0	-2110	-1967	-1824	-1953	-1314	-1513	-1712	-1815
00000AC8	-1918	-2207	-2242	-2453	-2408	-2602	-2541	-2752
00000AD0	-2707	-2692	-2679	-2409	-2140	-2054	-1968	-1867
00000AD8	-1766	-1721	-1677	-2369	-2293	-2516	-948	-53
00000AE0	+75	+92	+110	+95	+82	+105	+129	+152
00000AE8	+177	+222	+268	+313	+359	+354	+350	+441
00000AF0	+533	+472	+411	+414	+674	-1689	-2518	-2339
00000AF8	-2416	-2401	-2386	-2387	-2388	-2388	-2388	-2388
00000B00	-1848	-1838	-1828	-1754	-1168	-1438	-1708	-1786
00000B08	-1864	-2225	-2075	-2372	-2158	-2255	-2353	-2546
00000B10	-2740	-2747	-2755	-2666	-2578	-2441	-2305	-2136
00000B18	-1968	-1991	-2015	-2390	-2254	-2669	-13	+51
00000B20	+116	+111	+106	+101	+96	+123	+150	+177
00000B28	+204	+242	+280	+318	+356	+418	+480	+510
00000B30	+540	+600	+661	+657	+1166	-2677	-2425	-2396
00000B38	-2368	-2380	-2392	-2404	-2416	-2416	-2416	-2416
00000B40	-1882	-1711	-1796	-1369	-1198	-1419	-1640	-1749
00000B48	-1858	-1977	-1842	-2058	-2019	-2113	-2207	-2366
00000B50	-2525	-2478	-2689	-2836	-2983	-2759	-2536	-2393
00000B58	-2250	-2194	-2139	-2357	-2318	-2018	+72	+113
00000B60	+157	+150	+145	+139	+134	+159	+186	+212
00000B68	+239	+273	+308	+342	+377	+439	+502	+548
00000B70	+595	+632	+669	+931	+170	-2666	-2430	-2403

00000B78	-2376	-2385	-2394	-2403	-2412	-2412	-2412	-2412
00000B80	-1916	-1840	-2276	-1240	-1228	-1400	-1572	-1712
00000B88	-1852	-1731	-1610	-1745	-1881	-1972	-2063	-2186
00000B90	-2310	-2211	-2625	-2751	-2877	-2822	-2768	-2650
00000B98	-2532	-2398	-2265	-2324	-2383	-1369	+156	+177
00000BA0	+198	+191	+185	+178	+172	+197	+223	+248
00000BA8	+274	+305	+336	+367	+398	+461	+524	+587
00000BB0	+650	+664	+679	+1206	-827	-2656	-2437	-2410
00000BB8	-2384	-2390	-2396	-2402	-2408	-2408	-2408	-2408
00000BC0	-1950	-1953	-1956	-1063	-1194	-1317	-1440	-1435
00000BC8	-1430	-1499	-1314	-1431	-1550	-1638	-1726	-1798
00000BD0	-1871	-1927	-2240	-2409	-2578	-2597	-2616	-2731
00000BD8	-2846	-2554	-2262	-2259	-2511	-527	+176	+207
00000BE0	+239	+231	+224	+217	+210	+234	+259	+284
00000BE8	+309	+336	+364	+391	+419	+482	+546	+609
00000BF0	+673	+744	+816	+936	-2015	-2485	-2187	-2289
00000BF8	-2392	-2395	-2398	-2401	-2404	-2404	-2404	-2404
00000C00	-1984	-2066	-1636	-886	-1160	-1234	-1308	-1414
00000C08	-1520	-2037	-2042	-1887	-1732	-1817	-1902	-1923
00000C10	-1944	-1900	-1856	-2068	-2280	-2372	-2464	-2556
00000C18	-2648	-2454	-2260	-2194	-2640	+314	+196	+238
00000C20	+280	+272	+264	+256	+248	+272	+296	+320
00000C28	+344	+368	+392	+416	+440	+504	+568	+632
00000C30	+696	+825	+954	+923	-2692	-2315	-2450	-2425
00000C38	-2400	-2400	-2400	-2400	-2400	-2400	-2400	-2400
00000C40	-2252	-1953	-1142	-1035	-1441	-1826	-2211	-2244
00000C48	-2278	-2220	-1908	-1914	-1922	-2001	-2336	-2095
00000C50	-2111	-2171	-2231	-2131	-2031	-2143	-2255	-2303
00000C58	-2352	-2306	-2260	-2359	-1689	+442	+269	+305
00000C60	+341	+333	+325	+317	+309	+329	+349	+369
00000C68	+389	+415	+441	+468	+494	+536	+579	+669
00000C70	+760	+797	+1091	-248	-2610	-2406	-2459	-2431
00000C78	-2404	-2400	-2396	-2392	-2388	-2388	-2388	-2388
00000C80	-2008	-2096	-1673	-1953	-2234	-2162	-2091	-2051
00000C88	-2012	-2149	-2286	-2199	-2113	-1930	-2259	-2012
00000C90	-2278	-2186	-2094	-2194	-2295	-2171	-2047	-2051
00000C98	-2056	-2158	-2261	-2524	-739	+570	+343	+372
00000CA0	+402	+394	+386	+378	+370	+386	+402	+418
00000CA8	+434	+462	+491	+520	+549	+569	+590	+707
00000CB0	+824	+770	+1228	-1418	-2528	-2498	-2468	-2438
00000CB8	-2408	-2400	-2392	-2384	-2376	-2376	-2376	-2376
00000CC0	-1988	-2191	-2139	-2150	-2163	-2130	-2098	-2081
00000CC8	-2066	-2140	-2216	-2179	-2143	-2066	-2245	-2137
00000CD0	-2285	-2233	-2181	-2225	-2270	-2326	-2382	-2166
00000CD8	-1952	-2250	-2549	-2465	+180	+394	+352	+407
00000CE0	+463	+455	+447	+423	+399	+523	+391	+547
00000CE8	+447	+493	+540	+572	+603	+633	+665	+792
00000CF0	+920	+1094	+1269	-2764	-2446	-2429	-2413	-2412
00000CF8	-2412	-2400	-2388	-2376	-2364	-2364	-2364	-2364
00000D00	-1968	-2031	-2094	-2093	-2092	-2099	-2106	-2113
00000D08	-2120	-2133	-2147	-2160	-2174	-2203	-2233	-2262
00000D10	-2292	-2280	-2269	-2257	-2246	-2226	-2207	-2283
00000D18	-2360	-2343	-2327	-2406	+586	-38	+363	+443
00000D20	+524	+516	+508	+468	+428	+660	+380	+676
00000D28	+460	+525	+591	+624	+658	+699	+741	+878
00000D30	+1016	+907	+286	-2575	-2364	-2361	-2358	-2387
00000D38	-2416	-2400	-2384	-2368	-2352	-2352	-2352	-2352
00000D40	-2020	-2071	-2124	-2080	-2037	-2062	-2089	-2115
00000D48	-2142	-2152	-2164	-2176	-2188	-2211	-2235	-2259
00000D50	-2283	-2275	-2267	-2260	-2253	-2249	-2246	-2290
00000D58	-2336	-2337	-2339	-1205	-71	-16	+296	+496
00000D60	+441	+469	+497	+381	+521	+635	+493	+735
00000D68	+465	+544	+624	+640	+656	+747	+839	+899
00000D70	+960	+1115	-1033	-2493	-2418	-2378	-2339	-2379
00000D78	-2420	-2408	-2396	-2384	-2372	-2372	-2372	-2372
00000D80	-2072	-2113	-2155	-2068	-1982	-2027	-2073	-2118
00000D88	-2164	-2173	-2183	-2193	-2203	-2220	-2238	-2256
00000D90	-2274	-2270	-2267	-2264	-2261	-2273	-2286	-2299
00000D98	-2312	-2332	-2352	-2052	-729	+7	+230	+550
00000DA0	+358	+422	+486	+294	+614	+610	+606	+794

00000DA8	+470	+564	+658	+656	+655	+797	+939	+921
00000DB0	+904	+1324	-2352	-2412	-2472	-2396	-2320	-2372
00000DB8	-2424	-2416	-2408	-2400	-2392	-2392	-2392	-2392
00000DC0	-1996	-1930	-1865	-1960	-2055	-2087	-2120	-2153
00000DC8	-2186	-2193	-2201	-2209	-2217	-2229	-2241	-2253
00000DD0	-2265	-2265	-2266	-2267	-2268	-2280	-2294	-2306
00000DD8	-2320	-2342	-2365	-2707	-2538	-1491	-188	+172
00000DE0	+275	+327	+379	+287	+451	+505	+559	+773
00000DE8	+475	+551	+628	+512	+653	+909	+654	+1007
00000DF0	+1104	-739	-2583	-2506	-2430	-2397	-2365	-2396
00000DF8	-2428	-2424	-2420	-2416	-2412	-2412	-2412	-2412
00000E00	-1920	-2004	-2088	-2108	-2128	-2148	-2168	-2188
00000E08	-2208	-2214	-2220	-2226	-2232	-2238	-2244	-2250
00000E10	-2256	-2261	-2266	-2271	-2276	-2289	-2302	-2315
00000E18	-2328	-2353	-2378	-2339	-2300	-2477	-1630	-719
00000E20	+192	+232	+272	+280	+288	+400	+512	+752
00000E28	+480	+539	+598	+369	+652	+767	-142	-1211
00000E30	-2792	-2547	-2302	-2345	-2388	-2399	-2410	-2421
00000E38	-2432	-2432	-2432	-2432	-2432	-2432	-2432	-2432
00000E40	-2024	-2070	-2116	-2130	-2144	-2164	-2184	-2204
00000E48	-2224	-2228	-2232	-2236	-2240	-2244	-2248	-2252
00000E50	-2256	-2262	-2270	-2276	-2284	-2296	-2310	-2322
00000E58	-2336	-2319	-2304	-2287	-2272	-2559	-2336	-1855
00000E60	-1376	-2264	-1104	-520	+64	+384	+704	+704
00000E68	+192	-44	-280	-1236	-1936	-3018	-2564	-2349
00000E70	-2392	-2390	-2390	-2388	-2388	-2398	-2410	-2420
00000E78	-2432	-2432	-2432	-2432	-2432	-2432	-2432	-2432
00000E80	-2128	-2136	-2144	-2152	-2160	-2180	-2200	-2220
00000E88	-2240	-2242	-2244	-2246	-2248	-2250	-2252	-2254
00000E90	-2256	-2265	-2274	-2283	-2292	-2305	-2318	-2331
00000E98	-2344	-2287	-2230	-2237	-2244	-2387	-2530	-2481
00000EA0	-2432	-2456	-2480	-2600	-2720	-2448	-2176	-1904
00000EA8	-2144	-2419	-2694	-2585	-2476	-2451	-2426	-2465
00000EB0	-2504	-2491	-2478	-2433	-2388	-2399	-2410	-2421
00000EB8	-2432	-2432	-2432	-2432	-2432	-2432	-2432	-2432
00000EC0	-2104	-2122	-2140	-2158	-2176	-2196	-2216	-2236
00000EC8	-2256	-2256	-2256	-2256	-2256	-2256	-2256	-2256
00000ED0	-2256	-2266	-2278	-2288	-2300	-2312	-2326	-2338
00000ED8	-2352	-2317	-2284	-2281	-2280	-2357	-2436	-2417
00000EE0	-2400	-2408	-2416	-2360	-2304	-2480	-864	-1648
00000EE8	-1408	-1225	-2580	-2509	-2440	-2427	-2416	-2435
00000EF0	-2456	-2446	-2438	-2412	-2388	-2398	-2410	-2420
00000EF8	-2432	-2432	-2432	-2432	-2432	-2432	-2432	-2432
00000F00	-2080	-2108	-2136	-2164	-2192	-2212	-2232	-2252
00000F08	-2272	-2270	-2268	-2266	-2264	-2262	-2260	-2258
00000F10	-2256	-2269	-2282	-2295	-2308	-2321	-2334	-2347
00000F18	-2360	-2349	-2338	-2327	-2316	-2329	-2342	-2355
00000F20	-2368	-2360	-2352	-2376	-2400	-2256	-2624	-1392
00000F28	-1696	-2593	-2466	-2435	-2404	-2405	-2406	-2407
00000F30	-2408	-2403	-2398	-2393	-2388	-2399	-2410	-2421
00000F38	-2432	-2432	-2432	-2432	-2432	-2432	-2432	-2432
00000F40	-2080	-2108	-2136	-2164	-2192	-2212	-2232	-2252
00000F48	-2272	-2270	-2268	-2266	-2264	-2262	-2260	-2258
00000F50	-2256	-2268	-2282	-2294	-2308	-2320	-2334	-2346
00000F58	-2360	-2348	-2338	-2326	-2316	-2328	-2342	-2354
00000F60	-2368	-2360	-2352	-2360	-2368	-2352	-2592	-2192
00000F68	-2560	-2768	-2466	-2434	-2404	-2404	-2406	-2406
00000F70	-2408	-2402	-2398	-2392	-2388	-2398	-2410	-2420
00000F78	-2432	-2432	-2432	-2432	-2432	-2432	-2432	-2432
00000F80	-2080	-2108	-2136	-2164	-2192	-2212	-2232	-2252
00000F88	-2272	-2270	-2268	-2266	-2264	-2262	-2260	-2258
00000F90	-2256	-2269	-2282	-2295	-2308	-2321	-2334	-2347
00000F98	-2360	-2349	-2338	-2327	-2316	-2329	-2342	-2355
00000FA0	-2368	-2360	-2352	-2344	-2336	-2448	-2560	-2480
00000FA8	-2400	-2433	-2466	-2435	-2404	-2405	-2406	-2407
00000FB0	-2408	-2403	-2398	-2393	-2388	-2399	-2410	-2421
00000FB8	-2432	-2432	-2432	-2432	-2432	-2432	-2432	-2432
00000FC0	-2080	-2108	-2136	-2164	-2192	-2212	-2232	-2252
00000FC8	-2272	-2270	-2268	-2266	-2264	-2262	-2260	-2258
00000FD0	-2256	-2268	-2282	-2294	-2308	-2320	-2334	-2346

00000FD8	-2360	-2348	-2338	-2326	-2316	-2328	-2342	-2354
00000FE0	-2368	-2360	-2352	-2344	-2336	-2448	-2560	-2480
00000FE8	-2400	-2432	-2466	-2434	-2404	-2404	-2406	-2406
00000FF0	-2408	-2402	-2398	-2392	-2388	-2398	-2410	-2420
00000FF8	-2432	-2432	-2432	-2432	-2432	-2432	-2432	-2432

The sample data for 12.4 fixed-point integers (RDP 8.1) is:

00000000	-1056	-1057	-1058	-1059	-1060	-1061	-1062	-1063
00000008	-1064	-1059	-1054	-1049	-1044	-1075	-1106	-1073
00000010	-1040	-1050	-1060	-1070	-1080	-1082	-1084	-1086
00000018	-1088	-1046	-1004	-1026	-1048	-1066	-1084	-1038
00000020	-992	-1044	-1096	-1084	-1072	-1068	-1064	-1060
00000028	-1056	-1063	-1070	-1077	-1084	-1075	-1066	-1057
00000030	-1048	-1048	-1048	-1048	-1048	-1048	-1048	-1048
00000038	-1048	-1040	-1032	-1024	-1016	-1016	-1016	-1016
00000040	-1064	-1056	-1049	-1057	-1066	-1066	-1067	-1067
00000048	-1068	-1063	-1058	-1053	-1048	-1058	-1068	-1062
00000050	-1057	-1067	-1077	-1079	-1081	-1067	-1054	-1064
00000058	-1074	-1066	-1058	-1058	-1057	-1057	-1057	-1049
00000060	-1041	-1056	-1071	-1070	-1069	-1066	-1064	-1061
00000068	-1058	-1063	-1068	-1073	-1079	-1073	-1067	-1061
00000070	-1055	-1054	-1053	-1052	-1051	-1050	-1050	-1050
00000078	-1050	-1043	-1036	-1029	-1022	-1022	-1022	-1022
00000080	-1072	-1056	-1040	-1056	-1072	-1072	-1072	-1072
00000088	-1073	-1068	-1063	-1058	-1053	-1042	-1031	-1052
00000090	-1074	-1084	-1094	-1089	-1083	-1053	-1024	-1042
00000098	-1061	-1086	-1112	-1090	-1067	-1049	-1030	-1060
000000A0	-1090	-1068	-1046	-1057	-1067	-1065	-1064	-1062
000000A8	-1061	-1064	-1067	-1070	-1074	-1071	-1068	-1065
000000B0	-1063	-1060	-1058	-1056	-1054	-1053	-1053	-1053
000000B8	-1053	-1047	-1041	-1035	-1029	-1029	-1029	-1029
000000C0	-1080	-1055	-1031	-1054	-1078	-1078	-1077	-1077
000000C8	-1077	-1072	-1067	-1062	-1058	-1066	-1074	-1066
000000D0	-1059	-1077	-1095	-1090	-1085	-1247	-1154	-1196
000000D8	-1239	-1235	-1230	-1121	-1141	-1176	-1083	-1087
000000E0	-1091	-1080	-1069	-1067	-1065	-1064	-1064	-1063
000000E8	-1063	-1064	-1066	-1067	-1069	-1069	-1069	-1069
000000F0	-1070	-1066	-1063	-1060	-1057	-1056	-1056	-1055
000000F8	-1055	-1050	-1045	-1040	-1035	-1035	-1035	-1035
00000100	-1088	-1055	-1022	-1053	-1085	-1084	-1083	-1082
00000108	-1082	-1077	-1072	-1067	-1063	-1090	-1117	-1080
00000110	-1044	-1070	-1097	-1220	-1343	-1185	-516	-199
00000118	+118	+152	+187	-1	-447	-1048	-1393	-1242
00000120	-1092	-1092	-1093	-1078	-1063	-1063	-1064	-1065
00000128	-1066	-1065	-1065	-1064	-1064	-1067	-1071	-1074
00000130	-1078	-1073	-1069	-1064	-1060	-1059	-1059	-1058
00000138	-1058	-1054	-1050	-1046	-1042	-1042	-1042	-1042
00000140	-1056	-1042	-1029	-1056	-1083	-1033	-1112	-1095
00000148	-1078	-1053	-1028	-1052	-1075	-1059	-1044	-1316
00000150	-1333	-1131	-418	+422	+1263	+1663	+1423	+1423
00000158	+1423	+1363	+1303	+1483	+1535	+1484	+1433	+198
00000160	-1037	-1372	-1068	-1140	-1084	-1101	-1118	-1095
00000168	-1072	-1072	-1073	-1074	-1075	-1076	-1078	-1079
00000170	-1081	-1079	-1078	-1076	-1075	-1065	-1055	-1061
00000178	-1068	-1063	-1058	-1053	-1048	-1048	-1048	-1048
00000180	-1024	-1030	-1036	-1059	-1081	-983	-1142	-1108
00000188	-1075	-1030	-985	-1037	-1088	-1157	-1227	-528
00000190	+682	+1495	+1284	+1296	+1309	+1184	+1315	+1254
00000198	+1193	+1166	+1139	+1176	+1213	+1456	+1444	+1511
000001A0	+1578	+651	-1044	-1203	-1106	-1139	-1172	-1125
000001A8	-1079	-1080	-1082	-1084	-1086	-1085	-1085	-1085
000001B0	-1085	-1086	-1087	-1088	-1090	-1071	-1052	-1065
000001B8	-1079	-1073	-1067	-1061	-1055	-1055	-1055	-1055
000001C0	-1056	-1081	-1107	-1117	-1127	-997	-1123	-1097
000001C8	-1071	-1054	-1038	-1061	-1085	-1135	+350	+1763
000001D0	+1385	+1017	+1162	+1146	+1131	+1089	+1175	+1132
000001D8	+1090	+1064	+1039	+1077	+1115	+1260	+1278	+1279

000001E0	+1281	+1610	+1556	+70	-1416	-1017	-1130	-1099
000001E8	-1069	-1080	-1091	-1094	-1097	-1094	-1092	-1090
000001F0	-1088	-1092	-1096	-1100	-1105	-1077	-1049	-1069
000001F8	-1089	-1082	-1075	-1068	-1061	-1061	-1061	-1061
00000200	-832	-877	-923	-920	-918	-883	-1105	-1086
00000208	-1068	-1079	-1091	-1086	-1082	-1369	+1415	+1367
00000210	+1320	+1180	+1041	+997	+954	+994	+1035	+1011
00000218	+988	+963	+939	+978	+1018	+1065	+1113	+1176
00000220	+1240	+1290	+1341	+1471	+1346	-1407	-1089	-1074
00000228	-1060	-1080	-1100	-1104	-1108	-1104	-1100	-1096
00000230	-1092	-1099	-1106	-1113	-1120	-1083	-1046	-1073
00000238	-1100	-1092	-1084	-1076	-1068	-1068	-1068	-1068
00000240	-1048	-1083	-1119	-1114	-1110	-1043	-1105	-1086
00000248	-1068	-1094	-1121	-1076	-1159	-1015	+1687	+1430
00000250	+1302	+1152	+1003	+925	+848	+878	+907	+905
00000258	+903	+878	+853	+877	+900	+955	+1011	+1074
00000260	+1138	+1149	+1161	+1364	+672	-1219	-1064	-1108
00000268	-1153	-1174	-1068	-1089	-1111	-1111	-1112	-1096
00000270	-1081	-1085	-1090	-1095	-1099	-1099	-1099	-1106
00000278	-1114	-1086	-1057	-1085	-1112	-1056	-1128	-1128
00000280	-1008	-1033	-1059	-1052	-1046	-1076	-1105	-1087
00000288	-1069	-1110	-1152	-1066	-1236	+106	+1448	+1238
00000290	+1285	+1125	+966	+854	+743	+762	+780	+799
00000298	+818	+793	+768	+776	+783	+846	+910	+973
000002A0	+1037	+1009	+982	+1130	-257	-1160	-1040	-1015
000002A8	-991	-1141	-1036	-1075	-1114	-1119	-1124	-1097
000002B0	-1070	-1072	-1074	-1077	-1079	-1115	-1152	-1140
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000002C8	-1069	-1102	-1135	-1072	-1265	+844	+1417	+1230
000002D0	+1171	+1073	+976	+839	+702	+693	+685	+709
000002D8	+733	+708	+683	+674	+666	+721	+776	+831
000002E0	+887	+908	+930	+1207	-1202	-1228	-999	-1017
000002E8	-140	-732	-1196	-1189	-1181	-1150	-1120	-1097
000002F0	-1075	-1082	-1090	-1091	-1091	-1099	-1109	-1094
000002F8	-1079	-1378	-1164	-967	-1153	-1313	-1089	-1153
00000300	-1056	-1061	-1067	-1073	-1079	-1076	-1074	-1072
00000308	-1070	-1094	-1118	-1078	-1294	+1582	+1386	+1222
00000310	+1058	+1022	+987	+824	+661	+625	+590	+619
00000318	+648	+623	+598	+573	+549	+596	+643	+690
00000320	+738	+808	+879	+645	-1380	-1041	-1215	-636
00000328	-314	-323	-333	-791	-1249	-1182	-1116	-1098
00000330	-1080	-1093	-1107	-1105	-1103	-1084	-1066	-1048
00000338	-1030	-140	-274	-1224	-894	-430	-990	-1118
00000340	-1056	-1060	-1065	-1070	-1075	-1072	-1070	-1068
00000348	-1066	-1073	-1080	-1039	-359	+1603	+1262	+1145
00000350	+1028	+970	+913	+776	+639	+587	+535	+547
00000358	+559	+522	+485	+488	+491	+500	+509	+582
00000360	+656	+652	+777	-106	-1245	-1094	-1200	-433
00000368	-307	-321	-335	-301	-268	-677	-1086	-1135
00000370	-1185	-1170	-1155	-1165	-1174	-1157	-1141	-1348
00000378	-660	-210	-271	-197	-378	-370	-1130	-1130
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00000388	-1063	-1053	-1043	-1129	+320	+1497	+1139	+1069
00000390	+999	+919	+840	+729	+618	+549	+480	+475
00000398	+470	+421	+372	+403	+434	+405	+376	+475
000003A0	+575	+497	+676	-857	-1111	-1148	-1186	-231
000003A8	-301	-319	-338	-324	-311	-300	-288	-405
000003B0	-522	-607	-692	-713	-734	-591	-448	-241
000003B8	-291	-280	-269	-450	-375	-567	-1271	-1143
000003C0	-1056	-1058	-1061	-1064	-1067	-1065	-1063	-1061
000003C8	-1059	-1008	-958	-1443	+631	+1007	+1128	+1048
000003D0	+969	+868	+767	+682	+597	+511	+425	+403
000003D8	+381	+368	+355	+254	+409	+302	+323	+376
000003E0	+429	+565	+574	-1432	-1136	-1169	-819	-212
000003E8	-246	-261	-276	-283	-290	-338	-386	-330
000003F0	-275	-283	-292	-293	-294	-328	-363	-286
000003F8	-337	-334	-330	-399	-339	-899	-1203	-1075
00000400	-1056	-1058	-1060	-1062	-1064	-1062	-1060	-1058
00000408	-1056	-1092	-1129	-861	+942	+517	+1117	+1028

00000410	+940	+817	+694	+635	+576	+473	+370	+331
00000418	+292	+315	+338	+233	+640	+327	+270	+277
00000420	+284	+378	-39	-1240	-1162	-1191	-453	-194
00000428	-192	-203	-215	-242	-270	-249	-229	-256
00000430	-284	-344	-405	-385	-366	-322	-279	-331
00000438	-384	-388	-392	-348	-304	-1232	-1136	-1008
00000440	-1052	-1055	-1058	-1061	-1064	-1052	-1040	-1052
00000448	-1065	-1102	-1268	-42	+928	+574	+604	+850
00000450	+841	+753	+666	+594	+522	+418	+315	+259
00000458	+203	+244	+286	+199	+624	+331	+165	+191
00000460	+218	+294	-652	-1175	-1058	-1307	+106	-6
00000468	-119	-132	-146	-160	-174	-188	-203	-242
00000470	-281	-313	-345	-337	-330	-312	-295	-341
00000478	-388	-402	-416	-270	-124	-332	-924	-1308
00000480	-1048	-1052	-1056	-1060	-1065	-1043	-1021	-1047
00000488	-1074	-1112	-1407	+777	+914	+759	+348	+801
00000490	+743	+690	+638	+553	+469	+364	+260	+187
00000498	+115	+174	+234	+165	+609	+335	+60	+106
000004A0	+152	+211	-1265	-1238	-1211	-784	+154	-74
000004A8	-47	-62	-78	-78	-78	-128	-178	-228
000004B0	-278	-282	-286	-290	-295	-303	-311	-351
000004B8	-392	-416	-440	-192	+56	-712	-1224	-1096
000004C0	-1044	-1049	-1054	-1059	-1065	-1049	-1034	-1050
000004C8	-1067	-1242	-1162	+1460	+1012	+768	+524	+544
000004D0	+692	+635	+578	+496	+415	+350	+285	+203
000004D8	+122	+128	+134	+171	+466	+331	+67	+92
000004E0	+118	-168	-1222	-1173	-1252	-396	+74	-37
000004E8	-22	-32	-42	-44	-46	-91	-136	-181
000004F0	-227	-227	-227	-259	-291	-309	-327	-361
000004F8	-396	-398	-400	-434	-980	-1148	-1188	-1124
00000500	-1040	-1046	-1053	-1059	-1066	-1056	-1047	-1053
00000508	-1060	-1117	-406	+1376	+1111	+777	+700	+287
00000510	+642	+580	+518	+440	+362	+336	+310	+220
00000518	+130	+82	+34	+178	+323	+327	+75	+79
00000520	+84	-548	-1180	-1108	-1293	-9	-5	-1
00000528	+2	-2	-6	-10	-15	-55	-95	-135
00000530	-176	-172	-168	-228	-288	-316	-344	-372
00000538	-400	-380	-360	-292	-1248	-1200	-1152	-1152
00000540	-1036	-1043	-1051	-1058	-1066	-1085	-1105	-1085
00000548	-1065	-1231	+522	+1307	+1069	+828	+716	+403
00000550	+475	+596	+462	+367	+272	+198	+125	+243
00000558	+361	+284	+208	+155	+103	+192	+152	+121
00000560	+90	-912	-1147	-1174	-945	+34	-9	-5
00000568	-1	-3	-6	-8	-11	-32	-53	-91
00000570	-129	-154	-180	-238	-296	-320	-344	-368
00000578	-392	-376	-360	-600	-1224	-1192	-1160	-1160
00000580	-1032	-1040	-1049	-1058	-1067	-1115	-1164	-1117
00000588	-1070	-1345	+1451	+1239	+1027	+879	+732	+520
00000590	+309	+613	+406	+294	+183	+189	+196	+138
00000598	+81	+103	+126	+133	+140	+57	-26	+35
000005A0	+96	-1277	-1115	-1240	-598	+78	-14	-9
000005A8	-5	-5	-6	-6	-7	-10	-12	-47
000005B0	-82	-137	-193	-249	-305	-324	-344	-364
000005B8	-384	-372	-360	-908	-1200	-1184	-1168	-1168
000005C0	-1028	-1037	-1047	-1057	-1067	-1089	-1111	-1069
000005C8	-1155	-659	+1371	+1146	+1049	+946	+716	+621
000005D0	+270	+518	+510	+349	+189	+188	+187	+137
000005D8	+88	+98	+108	+94	+81	+50	+19	+76
000005E0	-378	-1210	-1146	-1274	-251	+65	-2	-5
000005E8	-8	-7	-6	-4	-3	-3	-3	-51
000005F0	-99	-160	-222	-259	-297	-320	-344	-360
000005F8	-376	-384	-392	-1096	-1160	-1168	-1176	-1176
00000600	-1024	-1035	-1046	-1057	-1068	-1063	-1058	-1021
00000608	-1240	+26	+1292	+1054	+1072	+1014	+700	+722
00000610	+232	+39	-154	-235	-316	-197	-78	+9
00000618	+96	+93	+91	+56	+22	+43	+65	+118
00000620	-852	-1143	-1178	-1309	+96	+53	+10	-1
00000628	-12	-9	-6	-3	+0	+3	+6	-55
00000630	-116	-183	-251	-270	-290	-317	-345	-356
00000638	-368	-396	-424	-1284	-1120	-1152	-1184	-1184

00000640	-1023	-1034	-1045	-1056	-1068	-1060	-1052	-1093
00000648	-1261	+999	+1340	+1370	+759	+58	-770	-1319
00000650	-1228	-1232	-1237	-1233	-1229	-1249	-1268	-1151
00000658	-1035	-497	+40	-38	+12	+17	+23	-75
00000660	-1197	-1211	-1225	-903	+58	+42	+26	+10
00000668	-5	-5	-5	-5	-5	-5	-5	-53
00000670	-101	-202	-303	-307	-312	-305	-298	-346
00000678	-395	-378	-745	-1200	-1143	-1151	-1159	-1159
00000680	-1022	-1033	-1045	-1056	-1068	-1058	-1047	-1037
00000688	-1027	+1461	+109	-874	-1346	-1281	-1217	-1057
00000690	-1153	-1096	-1040	-1079	-1119	-1149	-1178	-1160
00000698	-1142	-1216	-1290	-772	+2	-8	-18	-140
000006A0	-1286	-1151	-1272	-497	+21	+32	+43	+22
000006A8	+1	-2	-5	-8	-11	-14	-17	-52
000006B0	-87	-93	-99	-89	-79	-165	-251	-337
000006B8	-423	-361	-1067	-1117	-1167	-1151	-1135	-1135
000006C0	-1021	-1032	-1044	-1056	-1068	-1079	-1090	-1077
000006C8	-1064	-1229	-1266	-1302	-1083	-1109	-1136	-1146
000006D0	-1157	-1000	-1099	-1109	-1121	-1161	-1200	-1192
000006D8	-1185	-1142	-1100	-1226	-1352	-705	+68	-701
000006E0	-1087	-1251	-1415	+125	+0	+14	+27	+17
000006E8	+7	+1	-4	-10	-16	-22	-28	-50
000006F0	-72	-87	-103	-110	-117	-88	-60	-207
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00000708	-1102	-1103	-1105	-1090	-1076	-1065	-1055	-1108
00000710	-906	-776	-1158	-1012	-867	-789	-711	-969
00000718	-1228	-1197	-1167	-1040	-1170	-1275	-1125	-1006
00000720	-1144	-1223	-1046	-21	-21	-4	+12	+13
00000728	+14	+5	-4	-13	-22	-31	-40	-49
00000730	-58	-82	-107	-131	-156	-140	-125	-77
00000738	-30	-470	-910	-1174	-1182	-1198	-1214	-1214
00000740	-1019	-1029	-1039	-1050	-1061	-1061	-1062	-1142
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00000750	-858	-742	-1011	-879	-748	-621	-493	-358
00000758	-223	-613	-1003	-1361	-1080	-1165	-1122	-1087
00000760	-1181	-1169	-517	+54	-14	-9	-5	+7
00000768	+20	+9	-1	-12	-23	-44	-65	-70
00000770	-75	-104	-133	-177	-222	-229	-236	-202
00000778	-41	-567	-581	-947	-1185	-1193	-1201	-1201
00000780	-1018	-1026	-1035	-1044	-1053	-1022	-991	-1040
00000788	-833	-834	-835	-948	-1062	-1295	-1272	-1041
00000790	-811	-709	-864	-747	-630	-581	-532	-387
00000798	-242	-157	-72	-403	-1246	-1183	-1120	-1169
000007A0	-1218	-1243	-244	+2	-7	-15	-22	+2
000007A8	+27	+14	+1	-12	-25	-58	-91	-92
000007B0	-93	-126	-159	-224	-289	-318	-347	-328
000007B8	-53	-1049	-1021	-1105	-1189	-1189	-1189	-1189
000007C0	-1017	-1023	-1031	-1038	-1045	-1046	-1048	-825
000007C8	-730	-843	-956	-1077	-1199	-1338	-1221	-1008
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000007D8	-197	-132	-68	+100	+12	-777	-1181	-1162
000007E0	-1143	-1061	-1363	-610	+15	+68	-7	+12
000007E8	+33	+18	+3	-3	-10	-55	-100	-105
000007F0	-110	-147	-185	-230	-275	-254	-234	-317
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00000808	-884	-981	-1078	-1207	-1336	-1381	-1170	-975
00000810	-780	-739	-699	-594	-490	-405	-321	-236
00000818	-152	-108	-65	-37	-10	+13	-1243	-1155
00000820	-1068	-1263	-1203	-1222	-1242	-489	+7	+23
00000828	+40	+23	+6	+5	+4	-53	-110	-119
00000830	-128	-169	-211	-236	-262	-319	-377	-818
00000838	-1260	-1116	-1228	-1196	-1164	-1164	-1164	-1164
00000840	-1006	-1015	-1024	-1026	-1027	-1095	-1036	-792
00000848	-933	-1040	-1148	-1263	-1378	-1326	-1147	-943
00000850	-739	-690	-641	-543	-446	-374	-302	-245
00000858	-189	-121	-54	-90	+0	-303	-1246	-1141
00000860	-1165	-1240	-1188	-1206	-1226	-1154	-1210	-675
00000868	-139	-62	+15	+44	+72	+63	+54	+13

00000870	-28	-139	-250	-553	-857	-1081	-1306	-1266
00000878	-1226	-1148	-1198	-1184	-1170	-1170	-1170	-1170
00000880	-996	-1009	-1022	-1020	-1017	-1120	-968	-847
00000888	-983	-1100	-1218	-1319	-1421	-1272	-1124	-911
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00000898	-227	-135	-44	-144	+11	-619	-1250	-1128
000008A0	-1263	-194	-1173	-1191	-1210	-1179	-1148	-1245
000008A8	-1342	-1171	-1000	-813	-627	-588	-549	-750
000008B0	-952	-1133	-1314	-1255	-1196	-1203	-1211	-1202
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000008C0	-986	-1003	-1020	-1021	-1023	-1097	-915	-917
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000008D8	-264	-212	-161	-29	-26	-1263	-1221	-1258
000008E0	-1040	+85	-70	-656	-1242	-1220	-1197	-1191
000008E8	-1185	-1200	-1215	-1254	-1294	-1279	-1265	-1250
000008F0	-1236	-1214	-1193	-1244	-1167	-1469	-1004	-665
000008F8	-1223	-1197	-1171	-1177	-1183	-1183	-1183	-1183
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00000908	-1114	-1236	-1358	-1416	-1474	-1292	-1110	-928
00000910	-746	-638	-531	-423	-316	-280	-245	-273
00000918	-302	-290	-279	-171	-576	-1140	-1193	-1261
00000920	-562	-20	+9	+7	+5	-621	-1247	-1265
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00000948	-1151	-1272	-1394	-1459	-1524	-1436	-1221	-1013
00000950	-805	-687	-569	-482	-396	-366	-336	-353
00000958	-371	-423	-476	-1008	-1029	-1220	-1156	-1163
00000960	-147	+49	-9	+11	+32	+13	-6	-314
00000968	-623	-897	-1172	-1254	-1337	-1270	-1203	-943
00000970	-684	-233	+217	+219	+349	+581	+428	-1347
00000978	-1204	-1206	-1208	-1194	-1180	-1180	-1180	-1180
00000980	-972	-999	-1026	-1037	-1048	-883	-974	-1081
00000988	-1189	-1309	-1430	-1502	-1575	-1581	-1332	-1098
00000990	-865	-736	-607	-542	-477	-452	-427	-434
00000998	-441	-429	-418	-438	-971	-1045	-1120	-1194
000009A0	+11	-9	-28	+16	+60	+7	-46	-4
000009A8	+38	+74	+110	+83	+55	+71	+87	+119
000009B0	+152	+189	+227	+265	+302	+338	+117	-1286
000009B8	-1155	-1199	-1243	-1207	-1171	-1171	-1171	-1171
000009C0	-970	-1000	-1030	-1036	-1042	-820	-982	-1072
000009C8	-1162	-1266	-1370	-1449	-1529	-1526	-1395	-1159
000009D0	-924	-784	-645	-601	-557	-537	-518	-514
000009D8	-510	-538	-567	-251	-1344	-1197	-1179	-776
000009E0	+9	-3	-15	+12	+40	+17	-6	+18
000009E8	+43	+62	+81	+68	+55	+68	+81	+118
000009F0	+156	+196	+237	+262	+287	+327	-401	-1233
000009F8	-1169	-1191	-1213	-1187	-1161	-1161	-1161	-1161
00000A00	-968	-1001	-1034	-1035	-1036	-757	-990	-1063
00000A08	-1136	-1223	-1310	-1397	-1484	-1471	-1458	-1221
00000A10	-984	-833	-683	-660	-638	-623	-609	-594
00000A18	-580	-520	-461	-705	-1206	-1094	-1239	-359
00000A20	+8	+3	-2	+9	+20	+27	+34	+41
00000A28	+48	+50	+52	+54	+56	+66	+76	+118
00000A30	+160	+204	+248	+260	+272	+316	-920	-1180
00000A38	-1184	-1184	-1184	-1168	-1152	-1152	-1152	-1152
00000A40	-949	-960	-972	-1055	-883	-775	-924	-992
00000A48	-1061	-1159	-1257	-1332	-1406	-1537	-1539	-1414
00000A50	-1160	-1012	-864	-804	-744	-728	-712	-696
00000A58	-681	-623	-565	-939	-1186	-1266	-1346	+165
00000A60	+12	+20	+27	+27	+27	+35	+44	+52
00000A68	+61	+75	+90	+104	+118	+41	-35	+24
00000A70	+83	+124	+164	+173	+181	+366	-1369	-1288
00000A78	-1208	-1197	-1187	-1176	-1166	-1166	-1166	-1166
00000A80	-930	-920	-910	-1076	-730	-794	-858	-922
00000A88	-986	-1095	-1205	-1267	-1329	-1475	-1365	-1479
00000A90	-1337	-1191	-1046	-948	-851	-834	-816	-799
00000A98	-782	-726	-670	-1174	-1166	-1182	-942	-78

00000AA0	+17	+37	+57	+45	+34	+44	+54	+64
00000AA8	+75	+101	+128	+154	+181	+145	+110	+58
00000AB0	+7	+44	+81	+86	+91	-351	-1306	-1141
00000AB8	-1232	-1211	-1190	-1185	-1180	-1180	-1180	-1180
00000AC0	-1055	-983	-912	-976	-657	-756	-856	-907
00000AC8	-959	-1103	-1121	-1226	-1204	-1301	-1270	-1376
00000AD0	-1353	-1346	-1339	-1204	-1070	-1027	-984	-933
00000AD8	-883	-860	-838	-1184	-1146	-1258	-474	-26
00000AE0	+37	+46	+55	+47	+41	+52	+64	+76
00000AE8	+88	+111	+134	+156	+179	+177	+175	+220
00000AF0	+266	+236	+205	+207	+337	-844	-1259	-1169
00000AF8	-1208	-1200	-1193	-1193	-1194	-1194	-1194	-1194
00000B00	-924	-919	-914	-877	-584	-719	-854	-893
00000B08	-932	-1112	-1037	-1186	-1079	-1127	-1176	-1273
00000B10	-1370	-1373	-1377	-1333	-1289	-1220	-1152	-1068
00000B18	-984	-995	-1007	-1195	-1127	-1334	-6	+25
00000B20	+58	+55	+53	+50	+48	+61	+75	+88
00000B28	+102	+121	+140	+159	+178	+209	+240	+255
00000B30	+270	+300	+330	+328	+583	-1338	-1212	-1198
00000B38	-1184	-1190	-1196	-1202	-1208	-1208	-1208	-1208
00000B40	-941	-855	-898	-684	-599	-709	-820	-874
00000B48	-929	-988	-921	-1029	-1009	-1056	-1103	-1183
00000B50	-1262	-1239	-1344	-1418	-1491	-1379	-1268	-1196
00000B58	-1125	-1097	-1069	-1178	-1159	-1009	+36	+56
00000B60	+78	+75	+72	+69	+67	+79	+93	+106
00000B68	+119	+136	+154	+171	+188	+219	+251	+274
00000B70	+297	+316	+334	+465	+85	-1333	-1215	-1201
00000B78	-1188	-1192	-1197	-1201	-1206	-1206	-1206	-1206
00000B80	-958	-920	-1138	-620	-614	-700	-786	-856
00000B88	-926	-865	-805	-872	-940	-986	-1031	-1093
00000B90	-1155	-1105	-1312	-1375	-1438	-1411	-1384	-1325
00000B98	-1266	-1199	-1132	-1162	-1191	-684	+78	+88
00000BA0	+99	+95	+92	+89	+86	+98	+111	+124
00000BA8	+137	+152	+168	+183	+199	+230	+262	+293
00000BB0	+325	+332	+339	+603	-413	-1328	-1218	-1205
00000BB8	-1192	-1195	-1198	-1201	-1204	-1204	-1204	-1204
00000BC0	-975	-976	-978	-531	-597	-658	-720	-717
00000BC8	-715	-749	-657	-715	-775	-819	-863	-899
00000BD0	-935	-963	-1120	-1204	-1289	-1298	-1308	-1365
00000BD8	-1423	-1277	-1131	-1129	-1255	-263	+88	+103
00000BE0	+119	+115	+112	+108	+105	+117	+129	+142
00000BE8	+154	+168	+182	+195	+209	+241	+273	+304
00000BF0	+336	+372	+408	+468	-1007	-1242	-1093	-1144
00000BF8	-1196	-1197	-1199	-1200	-1202	-1202	-1202	-1202
00000C00	-992	-1033	-818	-443	-580	-617	-654	-707
00000C08	-760	-1018	-1021	-943	-866	-908	-951	-961
00000C10	-972	-950	-928	-1034	-1140	-1186	-1232	-1278
00000C18	-1324	-1227	-1130	-1097	-1320	+157	+98	+119
00000C20	+140	+136	+132	+128	+124	+136	+148	+160
00000C28	+172	+184	+196	+208	+220	+252	+284	+316
00000C30	+348	+412	+477	+461	-1346	-1157	-1225	-1212
00000C38	-1200	-1200	-1200	-1200	-1200	-1200	-1200	-1200
00000C40	-1126	-976	-571	-517	-720	-913	-1105	-1122
00000C48	-1139	-1110	-954	-957	-961	-1000	-1168	-1047
00000C50	-1055	-1085	-1115	-1065	-1015	-1071	-1127	-1151
00000C58	-1176	-1153	-1130	-1179	-844	+221	+134	+152
00000C60	+170	+166	+162	+158	+154	+164	+174	+184
00000C68	+194	+207	+220	+234	+247	+268	+289	+334
00000C70	+380	+398	+545	-124	-1305	-1203	-1229	-1215
00000C78	-1202	-1200	-1198	-1196	-1194	-1194	-1194	-1194
00000C80	-1004	-1048	-836	-976	-1117	-1081	-1045	-1025
00000C88	-1006	-1074	-1143	-1099	-1056	-965	-1129	-1006
00000C90	-1139	-1093	-1047	-1097	-1147	-1085	-1023	-1025
00000C98	-1028	-1079	-1130	-1262	-369	+285	+171	+186
00000CA0	+201	+197	+193	+189	+185	+193	+201	+209
00000CA8	+217	+231	+245	+260	+274	+284	+295	+353
00000CB0	+412	+385	+614	-709	-1264	-1249	-1234	-1219
00000CB8	-1204	-1200	-1196	-1192	-1188	-1188	-1188	-1188
00000CC0	-994	-1095	-1069	-1075	-1081	-1065	-1049	-1040
00000CC8	-1033	-1070	-1108	-1089	-1071	-1033	-1122	-1068

00000CD0	-1142	-1116	-1090	-1112	-1135	-1163	-1191	-1083
00000CD8	-976	-1125	-1274	-1232	+90	+197	+176	+203
00000CE0	+231	+227	+223	+211	+199	+261	+195	+273
00000CE8	+223	+246	+270	+286	+301	+316	+332	+396
00000CF0	+460	+547	+634	-1382	-1223	-1214	-1206	-1206
00000CF8	-1206	-1200	-1194	-1188	-1182	-1182	-1182	-1182
00000D00	-984	-1015	-1047	-1046	-1046	-1049	-1053	-1056
00000D08	-1060	-1066	-1073	-1080	-1087	-1101	-1116	-1131
00000D10	-1146	-1140	-1134	-1128	-1123	-1113	-1103	-1141
00000D18	-1180	-1171	-1163	-1203	+293	-19	+181	+221
00000D20	+262	+258	+254	+234	+214	+330	+190	+338
00000D28	+230	+262	+295	+312	+329	+349	+370	+439
00000D30	+508	+453	+143	-1287	-1182	-1180	-1179	-1193
00000D38	-1208	-1200	-1192	-1184	-1176	-1176	-1176	-1176
00000D40	-1010	-1035	-1062	-1040	-1018	-1031	-1044	-1057
00000D48	-1071	-1076	-1082	-1088	-1094	-1105	-1117	-1129
00000D50	-1141	-1137	-1133	-1130	-1126	-1124	-1123	-1145
00000D58	-1168	-1168	-1169	-602	-35	-8	+148	+248
00000D60	+220	+234	+248	+190	+260	+317	+246	+367
00000D68	+232	+272	+312	+320	+328	+373	+419	+449
00000D70	+480	+557	-516	-1246	-1209	-1189	-1169	-1189
00000D78	-1210	-1204	-1198	-1192	-1186	-1186	-1186	-1186
00000D80	-1036	-1056	-1077	-1034	-991	-1013	-1036	-1059
00000D88	-1082	-1086	-1091	-1096	-1101	-1110	-1119	-1128
00000D90	-1137	-1135	-1133	-1132	-1130	-1136	-1143	-1149
00000D98	-1156	-1166	-1176	-1026	-364	+3	+115	+275
00000DA0	+179	+211	+243	+147	+307	+305	+303	+397
00000DA8	+235	+282	+329	+328	+327	+398	+469	+460
00000DB0	+452	+662	-1176	-1206	-1236	-1198	-1160	-1186
00000DB8	-1212	-1208	-1204	-1200	-1196	-1196	-1196	-1196
00000DC0	-998	-965	-932	-980	-1027	-1043	-1060	-1076
00000DC8	-1093	-1096	-1100	-1104	-1108	-1114	-1120	-1126
00000DD0	-1132	-1132	-1133	-1133	-1134	-1140	-1147	-1153
00000DD8	-1160	-1171	-1182	-1353	-1269	-745	-94	+86
00000DE0	+137	+163	+189	+143	+225	+252	+279	+386
00000DE8	+237	+275	+314	+256	+326	+454	+327	+503
00000DF0	+552	-369	-1291	-1253	-1215	-1198	-1182	-1198
00000DF8	-1214	-1212	-1210	-1208	-1206	-1206	-1206	-1206
00000E00	-960	-1002	-1044	-1054	-1064	-1074	-1084	-1094
00000E08	-1104	-1107	-1110	-1113	-1116	-1119	-1122	-1125
00000E10	-1128	-1130	-1133	-1135	-1138	-1144	-1151	-1157
00000E18	-1164	-1176	-1189	-1169	-1150	-1238	-815	-359
00000E20	+96	+116	+136	+140	+144	+200	+256	+376
00000E28	+240	+269	+299	+184	+326	+383	-71	-605
00000E30	-1396	-1273	-1151	-1172	-1194	-1199	-1205	-1210
00000E38	-1216	-1216	-1216	-1216	-1216	-1216	-1216	-1216
00000E40	-1012	-1035	-1058	-1065	-1072	-1082	-1092	-1102
00000E48	-1112	-1114	-1116	-1118	-1120	-1122	-1124	-1126
00000E50	-1128	-1131	-1135	-1138	-1142	-1148	-1155	-1161
00000E58	-1168	-1159	-1152	-1143	-1136	-1279	-1168	-927
00000E60	-688	-1132	-552	-260	+32	+192	+352	+352
00000E68	+96	-22	-140	-618	-968	-1509	-1282	-1174
00000E70	-1196	-1195	-1195	-1194	-1194	-1199	-1205	-1210
00000E78	-1216	-1216	-1216	-1216	-1216	-1216	-1216	-1216
00000E80	-1064	-1068	-1072	-1076	-1080	-1090	-1100	-1110
00000E88	-1120	-1121	-1122	-1123	-1124	-1125	-1126	-1127
00000E90	-1128	-1132	-1137	-1141	-1146	-1152	-1159	-1165
00000E98	-1172	-1143	-1115	-1118	-1122	-1193	-1265	-1240
00000EA0	-1216	-1228	-1240	-1300	-1360	-1224	-1088	-952
00000EA8	-1072	-1209	-1347	-1292	-1238	-1225	-1213	-1232
00000EB0	-1252	-1245	-1239	-1216	-1194	-1199	-1205	-1210
00000EB8	-1216	-1216	-1216	-1216	-1216	-1216	-1216	-1216
00000EC0	-1052	-1061	-1070	-1079	-1088	-1098	-1108	-1118
00000EC8	-1128	-1128	-1128	-1128	-1128	-1128	-1128	-1128
00000ED0	-1128	-1133	-1139	-1144	-1150	-1156	-1163	-1169
00000ED8	-1176	-1158	-1142	-1140	-1140	-1178	-1218	-1208
00000EE0	-1200	-1204	-1208	-1180	-1152	-1240	-432	-824
00000EE8	-704	-612	-1290	-1254	-1220	-1213	-1208	-1217
00000EF0	-1228	-1223	-1219	-1206	-1194	-1199	-1205	-1210
00000EF8	-1216	-1216	-1216	-1216	-1216	-1216	-1216	-1216

00000F00	-1040	-1054	-1068	-1082	-1096	-1106	-1116	-1126
00000F08	-1136	-1135	-1134	-1133	-1132	-1131	-1130	-1129
00000F10	-1128	-1134	-1141	-1147	-1154	-1160	-1167	-1173
00000F18	-1180	-1174	-1169	-1163	-1158	-1164	-1171	-1177
00000F20	-1184	-1180	-1176	-1188	-1200	-1128	-1312	-696
00000F28	-848	-1296	-1233	-1217	-1202	-1202	-1203	-1203
00000F30	-1204	-1201	-1199	-1196	-1194	-1199	-1205	-1210
00000F38	-1216	-1216	-1216	-1216	-1216	-1216	-1216	-1216
00000F40	-1040	-1054	-1068	-1082	-1096	-1106	-1116	-1126
00000F48	-1136	-1135	-1134	-1133	-1132	-1131	-1130	-1129
00000F50	-1128	-1134	-1141	-1147	-1154	-1160	-1167	-1173
00000F58	-1180	-1174	-1169	-1163	-1158	-1164	-1171	-1177
00000F60	-1184	-1180	-1176	-1180	-1184	-1176	-1296	-1096
00000F68	-1280	-1384	-1233	-1217	-1202	-1202	-1203	-1203
00000F70	-1204	-1201	-1199	-1196	-1194	-1199	-1205	-1210
00000F78	-1216	-1216	-1216	-1216	-1216	-1216	-1216	-1216
00000F80	-1040	-1054	-1068	-1082	-1096	-1106	-1116	-1126
00000F88	-1136	-1135	-1134	-1133	-1132	-1131	-1130	-1129
00000F90	-1128	-1134	-1141	-1147	-1154	-1160	-1167	-1173
00000F98	-1180	-1174	-1169	-1163	-1158	-1164	-1171	-1177
00000FA0	-1184	-1180	-1176	-1172	-1168	-1224	-1280	-1240
00000FA8	-1200	-1216	-1233	-1217	-1202	-1202	-1203	-1203
00000FB0	-1204	-1201	-1199	-1196	-1194	-1199	-1205	-1210
00000FB8	-1216	-1216	-1216	-1216	-1216	-1216	-1216	-1216
00000FC0	-1040	-1054	-1068	-1082	-1096	-1106	-1116	-1126
00000FC8	-1136	-1135	-1134	-1133	-1132	-1131	-1130	-1129
00000FD0	-1128	-1134	-1141	-1147	-1154	-1160	-1167	-1173
00000FD8	-1180	-1174	-1169	-1163	-1158	-1164	-1171	-1177
00000FE0	-1184	-1180	-1176	-1172	-1168	-1224	-1280	-1240
00000FE8	-1200	-1216	-1233	-1217	-1202	-1202	-1203	-1203
00000FF0	-1204	-1201	-1199	-1196	-1194	-1199	-1205	-1210
00000FF8	-1216	-1216	-1216	-1216	-1216	-1216	-1216	-1216

4.2.4.4 Inverse Color Conversion

The following is a dump of the decoded 64 x 64 XRGB image obtained by using the Color Conversion transform matrix (section 3.1.8.2.5) on the reconstructed Y, Cb, and Cr component data. The Y, Cb, and Cr component data, presented in earlier sections, was in 11.5 fixed-point format for Microsoft RDP 7.1 and Microsoft RDP 8.0 and 12.4 fixed-point format for Microsoft RDP 8.1. The 11.5 fixed-point format is used in this inverse color conversion example and is converted to floating-point representation before using the transform matrix given in section 3.1.8.2.5. Alternatively, the transform matrix can be appropriately modified to handle fixed-point data.

```

00000000 00229cdf 00249de0 00259fe2 002ca5e8 00229cdf 00229ce0 00239de0 00229ce0
00000008 00229cdf 00229cdf 00239ce0 00249ce0 00249ce0 00219ce3 001e9ce6 00209ae2
00000010 002299dd 002199de 00209adf 00209ae0 001f9be0 001e9ae0 001d99e0 001c98e0
00000018 001b97df 001e96dc 002194d9 001f93dd 001d93e0 001b94dc 001895d8 001c92db
00000020 00208fde 001b91de 001693df 001793df 001992df 001891df 00178fdf 00178edf
00000028 00168dde 00158cdd 00148cdc 00128cda 00118cd9 00118bd9 00128ada 001289da
00000030 001288db 001187da 001186da 001085da 000f85d9 000f84d9 000e83d9 000d82d8
00000038 000d82d8 000d81d8 000d80d7 000d7fd7 000d7ed6 000d7ed6 000d7ed6 000d7ed6
00000040 00259fe1 0027a1e2 0029a2e3 002ba4e6 00249fe1 00249fe1 00249fe1 00249ee1
00000048 00239ee1 00249ee1 00249ee1 00259de1 00259de2 00249de2 00229de2 00229ce1
00000050 00229bdf 00219ce0 00209ce1 00209ce2 00209ce2 00209ae0 002199de 001f99df
00000058 001d98e0 001e97e0 001f97e0 001d96df 001c95de 001c94e0 001c94e1 001d93e1
00000060 001d92e0 001b93de 001a94dc 001a93de 001a93e0 001992e0 001891df 00188fdf
00000068 00178edf 00168ede 00158edd 00148ddc 00138ddb 00138cdb 00138bdb 00128adb
00000070 001289db 001288db 001187db 001186db 001085db 000f84da 000e83d9 000e83d9
00000078 000e83d9 000e82d9 000e81d8 000e80d8 000d7fd7 000d7fd7 000d7fd7 000d7fd7
00000080 0027a3e3 002aa4e3 002ea6e3 002aa4e3 0026a2e3 0026a1e3 0025a1e3 0025a0e3
00000088 0025a0e3 0025a0e3 00259fe3 00269fe3 00269ee4 00279ee1 00279edf 00259ee0
00000090 00239ee1 00219ee2 00209ee4 00209de4 00219de3 00229be0 002499dc 002299de
00000098 001f98e0 001d99e4 001b9ae7 001c98e2 001c96dc 001e94e3 002092ea 001d94e6
000000A0 001a96e2 001c96de 001d95da 001c94de 001b94e1 001a93e0 001a92e0 001991e0
000000A8 001890e0 001790df 00178fde 00168fde 00158edd 00148ddd 00138cdc 00138bdc
000000B0 00128adc 001289dc 001188dc 001187dd 001086dd 000f85db 000e83d9 000e84da

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00000FF8 00169ff8 00159ef7 00149df7 00139cf6 00129bf5 00129bf5 00129bf5 00129bf5

4.2.4.5 Decoded Image

The following is the decoded image that is represented by the XRGB data given in section 4.2.4.4.



Figure 20: Decoded image

5 Security

5.1 Security Considerations for Implementers

None.

5.2 Index of Security Parameters

None.

6 Appendix A: Product Behavior

The information in this specification is applicable to the following Microsoft products or supplemental software. References to product versions include updates to those products.

- Windows 7 Enterprise operating system with Service Pack 1 (SP1)
- Windows 7 Ultimate operating system with Service Pack 1 (SP1)
- Windows Server 2008 R2 Standard operating system with Service Pack 1 (SP1)
- Windows Server 2008 R2 Enterprise operating system with Service Pack 1 (SP1)
- Windows Server 2008 R2 Datacenter operating system with Service Pack 1 (SP1)
- Microsoft Hyper-V Server 2008 R2 Service Pack 1
- Windows 8 operating system
- Windows Server 2012 operating system
- Windows 8.1 operating system
- Windows Server 2012 R2 operating system
- Windows 10 operating system
- Windows Server 2016 operating system
- Windows Server operating system

Exceptions, if any, are noted in this section. If an update version, service pack or Knowledge Base (KB) number appears with a product name, the behavior changed in that update. The new behavior also applies to subsequent updates unless otherwise specified. If a product edition appears with the product version, behavior is different in that product edition.

Unless otherwise specified, any statement of optional behavior in this specification that is prescribed using the terms "SHOULD" or "SHOULD NOT" implies product behavior in accordance with the SHOULD or SHOULD NOT prescription. Unless otherwise specified, the term "MAY" implies that the product does not follow the prescription.

<1> Section 1.5: Microsoft RDP 8.0 RemoteFX servers require that the `TS_FRAME_ACKNOWLEDGE_CAPABILITYSET` (section 2.2.1.3) be sent by the client.

<2> Section 1.5: Microsoft RDP 8.0 RemoteFX servers do not require that the **connectionType** field of the Client Core Data ([MS-RDPBCGR] section 2.2.1.3.2) be set to `CONNECTION_TYPE_LAN` (0x06).

<3> Section 2.2.2.1.3: Microsoft RDP 7.1 RemoteFX clients validate the **width** field.

<4> Section 2.2.2.1.3: Microsoft RDP 7.1 RemoteFX clients validate the **height** field.

<5> Section 2.2.3.1: Microsoft RDP 8.0 RemoteFX servers do not check for the special **frameID** value of 0xFFFFFFFF.

7 Change Tracking

This section identifies ~~No table of changes that were made to this is available. The document is either new or has had no changes since theits~~ last release. ~~Changes are classified as Major, Minor, or None.~~

The revision class ~~Major~~ means that the technical content in the document was significantly revised. ~~Major changes affect protocol interoperability or implementation. Examples of major changes are:~~

- ~~• A document revision that incorporates changes to interoperability requirements.~~
- ~~• A document revision that captures changes to protocol functionality.~~

The revision class ~~Minor~~ means that the meaning of the technical content was clarified. ~~Minor changes do not affect protocol interoperability or implementation. Examples of minor changes are updates to clarify ambiguity at the sentence, paragraph, or table level.~~

The revision class ~~None~~ means that no new technical changes were introduced. ~~Minor editorial and formatting changes may have been made, but the relevant technical content is identical to the last released version.~~

The changes made to this document are listed in the following table. For more information, please contact dochelp@microsoft.com.

Section	Description	Revision class
6 Appendix A: Product Behavior	Added Windows Server operating system to the list of applicable products.	Major

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