Tables

Table 0-1	Typographic Conventions	xxix
Table 1-1	Finding Information About Image-Processing Functions	2
Table 1-2	Finding Information About Compression Techniques	4
Table 1-3	Finding Information About Additional XIL Functions	5
Table 1-4	Example Programs Provided with the XIL Developer's Release	8
Table 2-1	Libraries Used in Linking XIL Programs	30
Table 2-2	Examples of Major and Minor Version Numbers	31
Table 3-1	Functions for Reading an Image's Width, Height, or Number of Bands	35
Table 3-2	Functions for Importing and Exporting Images	37
Table 3-3	Functions for Reading or Setting an Image's Origin	47
Table 3-4	Functions Used to Build an ROI	50
Table 3-5	ROI Naming Functions	51
Table 3-6	Parameters to `xil_create_child()`	53
Table 3-7	Image Type Utility Functions	55
Table 3-8	Image Naming Functions	56
Table 4-1	Cases Handled by the Function `load_file()`	61

Table 5-1 Resolutions of Photo CD Images 77

Table 5-2 Photo CD Image Attributes 79

Table 5-3 Converting PhotoYCC Data to Another Color Space 84

Table 6-1 Source Files for `display` 87

Table 6-2 Cases Handled by the `display` Program 95

Table 7-1 Matching Source and Display Images 98

Table 7-2 Plane Masks for an Overlay 100

Table 7-3 Functions for Managing Colorcubes 114

Table 7-4 Utility Functions for Dither Masks 121

Table 7-5 Review of Dithering Operations 121

Table 7-6 Strings Used to Specify Color Spaces 123

Table 8-1 XIL Error Categories 130

Table 9-1 Valid Values for Each XIL Data Type 142

Table 9-2 Arithmetic Operations Using a Source Image and a Constant 146

Table 9-3 Logical Operations Using a Source Image and a Constant . . . 147

Table 10-1 Types of Interpolation 150

Table 10-2 Constants in the Enumeration `XilFlipType` 175

Table 11-1 Parameters to `xil_histogram_create()` 180

Table 11-2 Additional Histogram Functions 182

Table 11-3 Parameters to `xil_soft_fill()` 186

Table 11-4 Handling Edges in a Convolution Operation 191

Table 11-5 Utility Functions for Convolution Kernels 192

Table 11-6 Utility Functions for Structuring Elements 199

Table 11-7 Parameters to `xil_lookup_create()` 200

Table 11-8 Additional Functions for Lookup Tables 206

Table 11-9	Parameters to `xil_paint()`	215
Table 12-1	Command-Line Options for `xilcis_example`	232
Table 12-2	Parameters to `xil_cis_put_bits_ptr()`	234
Table 13-1	Types of Images Supported by XIL Compressors	252
Table 13-2	Compressors and Compressor Types	259
Table 13-3	CIS Naming Functions	266
Table 16-1	Image Bands and Huffman Tables	311
Table 16-2	Default Huffman Tables	318
Table 17-1	JPEG Lossless Prediction Methods	335
Table 18-1	Sizes of CIF- and QCIF-Format Images	338
Table 19-1	Two Command Sequences: CIS Pattern = IPBB	368
Table 19-2	Releasing a Frame: CIS Pattern = All I Frames	371
Table 19-3	Releasing a Frame: CIS Pattern = IPB	372
Table 19-4	Releasing a Frame: CIS Pattern = IPBBPBB	372
Table 19-5	Characters Representing Picture Types	377
Table 21-1	Exceptions to the General Decompression-Molecule Rules	405
Table 21-2	Type of Flip Designated on the Call to `xil_transpose()`	407
Table 21-3	Functions That Affect Deferred Execution	416
Table A-1	Key to Names Used in Molecule Definitions	418
Table B-1	XIL Library Error Messages	426
Table C-1	XIL-XGL Interoperability	460
Table D-1	Cell Bytestream Codes	473
Table D-2	Default Y/Y Table	480
Table D-3	Default C_b/C_r Table	484