

Table 1: Function / Block Level - PART I

F_{c1} - data dependency	
1	/* uses global character buffer generated from message_generate function of sockfilt file*/
2	void win32_perror(const char *msg)
F_{c2} - call order	
1	/* png_destroy_png_struct calls png_free
2	which might call png_error and may certainly call
3	* png_get_mem_ptr, so fake a temporary png_struct to support this.
4	*/
5	void png_destroy_png_struct(png_structrp png_ptr)
F_{c3} - algorithm outline / working summary	
1	/* Allocate memory. For reasonable files, size should never exceed
2	* 64K. However, zlib may allocate more than 64K if you don't tell
3	* it not to. See zconf.h and png.h for more information. zlib does
4	* need to allocate exactly 64K, so whatever you call here must
5	* have the ability to do that.
6	*/
7	PNG_FUNCTION(png_voidp,PNGAPI
8	png_calloc,(png_const_structrp png_ptr, png_alloc_size_t size),PNG_ALLOCATED)
9	{
1	/* Free a pointer allocated by png_malloc(). If ptr is NULL, return
2	* without taking any action.
3	*/
4	void PNGAPI
5	png_free(png_const_structrp png_ptr, png_voidp ptr)
6	{
F_{c4} - mapping to AD	
1	// used extensively in resetting standard x-y plots, semi-log plots
2	void
3	plFree2dGrid(PLFLT **f, PLINT nx, PLINT PL_UNUSED(ny))
4	{
F_{c5} - description of the dataset or global data stores being used	
1	# works on a two dimensional data matrix (each of size 8) generated from light rider bot module
2	def flood_fill(self, position, visited):
1	/* pngmem.c - stub functions for memory allocation of libpng -- raster-graphics file-format*/
2	#include "pngpriv.h"
F_{c6} - links to project management details	
1	#if defined(PNG_TEXT_SUPPORTED) defined(PNG_sPLT_SUPPORTED) \
2	defined(PNG_STORE_UNKNOWN_CHUNKS_SUPPORTED)
3	/* Introduced in libpng 1.6.0, commit 0e13545. This is really here only to work round a spurious
4	warning in GCC 4.6 and 4.7
5	* that arises because of the checks in png_realloc_array that are repeated in
6	* png_malloc_array, issue #289.
7	*/
8	static png_voidp
9	png_malloc_array_checked(png_const_structrp png_ptr, int nelements,
10	size_t element_size)
11	{

Table 2: Function / Block Level – PART II

F_{c7} - descriptions of parameters / return type	
<pre> 1 ///! Allocate a block of memory for use as a matrix of type 2 ///! PLFLT_MATRIX (organized as an Iliffe column vector of pointers to 3 ///! row vectors). As a result the matrix can be accessed using C/C++ 4 ///! syntax like *f[i][j]. The memory associated with this matrix must 5 ///! be freed by calling plFree2dGrid once it is no longer required. 6 ///! Example usage: 7 ///! 8 ///! PLFLT **z; 9 ///! 10 ///! plAlloc2dGrid(&z, XPTS, YPTS); 11 ///! 12 ///! @param f Location of the storage (address of a **). 13 ///! @param nx Size of the grid in x. 14 ///! @param ny Size of the grid in y. 15 ///! 16 ///----- 17 18 void 19 plAlloc2dGrid(PLFLT ***f, PLINT nx, PLINT ny) 20 { </pre>	
F_{c8} - possible exceptions	
<pre> 1 /* Check for overflow on the elements count (so the caller does not have to 2 * check.) png_malloc_array has been worked with the size calculations to avoid 3 * overflow. 4 */ 5 PNG_FUNCTION(png_voidp, 6 png_realloc_array,(png_const_structrp png_ptr, png_const_voidp old_array, 7 int old_elements, int add_elements, size_t element_size),PNG_ALLOCATED) 8 { 9 /* These are internal errors: */ </pre>	
F_{c9} - description of external libraries used	
<pre> 1 /* uses png_calloc defined in pngpriv.h*/ 2 PNG_FUNCTION(png_voidp,PNGAPI 3 png_calloc,(png_const_structrp png_ptr, png_alloc_size_t size),PNG_ALLOCATED) 4 { </pre>	
F_{c10} - markers - namespace, macros, class, function	
<pre> 1 } 2 #endif /* TEXT sPLT STORE_UNKNOWN_CHUNKS */ </pre>	