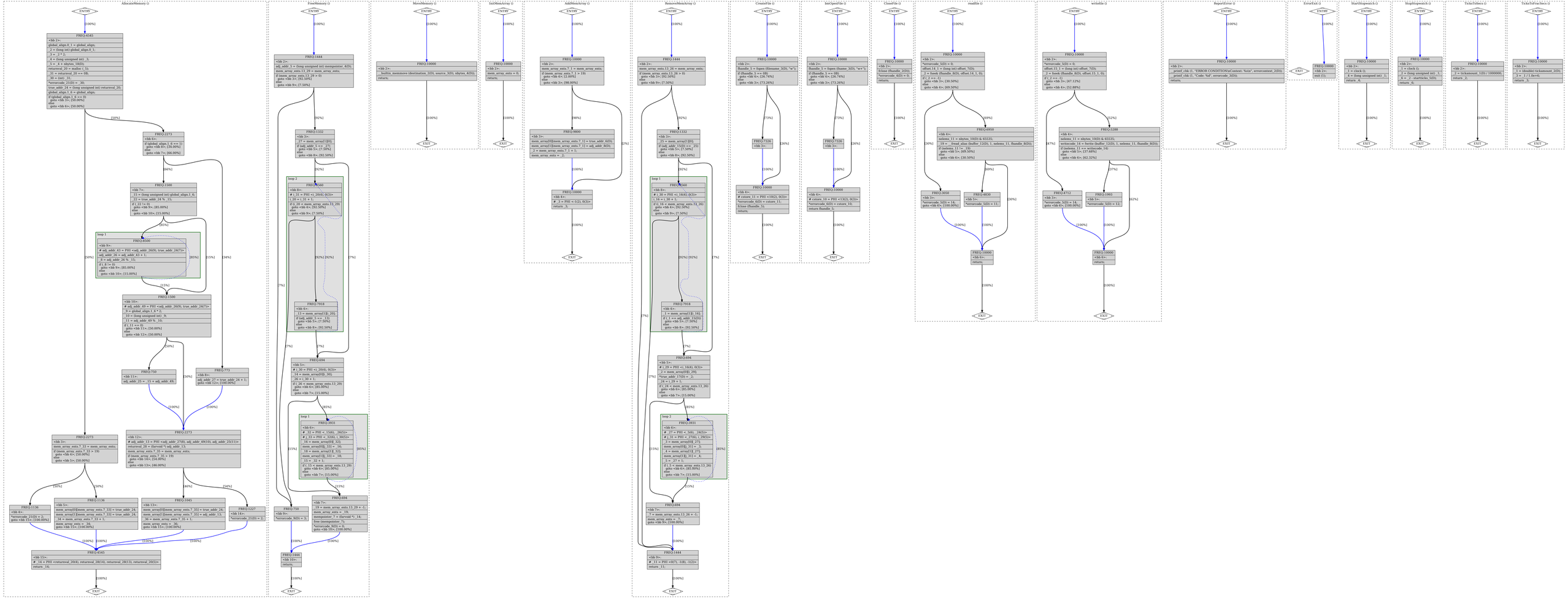
AllocateMemory ()
ENTRY
100%
FREQ:4545
<bb 2>:
global_align_0_1 = global_align;
2 = (long int) global_align_0_1;
3 = _2 * 2;
4 = (long unsigned int) _3;
5 = _4 + sbytes_18(D);
returnval_20 = malloc (_5);
_31 = returnval_20 == 0B;
_30 = (int) _31;
*errorcode_21(D) = _30;
true_addr_24 = (long unsigned int) returnval_20;
global_align_1_6 = global_align;
if (global_align_1_6 == 0)
goto <bb 3>; [50.00%]
else
goto <bb 6>; [50.00%]
50%
50%
FREQ:2273
<bb 6>:
if (global_align_1_6 == 1)
goto <bb 8>; [34.00%]
else
goto <bb 7>; [66.00%]
66%
34%
FREQ:1500
<bb 7>:
_15 = (long unsigned int) global_align_1_6;
_22 = true_addr_24 % _15;
if (_22 != 0)
goto <bb 9>; [85.00%]
else
goto <bb 10>; [15.00%]
85%
15%
loop 1
FREQ:8500
<bb 9>:
# adj_addr_43 = PHI <adj_addr_29(9), true_addr_24(7)>
adj_addr_26 = adj_addr_43 + 1;
_8 = adj_addr_26 % _15;
if (_8 != 0)
goto <bb 9>; [85.00%]
else
goto <bb 10>; [15.00%]
85%
15%
15%
FREQ:1500
<bb 10>:
# adj_addr_49 = PHI <adj_addr_26(9), true_addr_24(7)>
_9 = global_align_1_6 * 2;
_10 = (long unsigned int) _9;
_11 = adj_addr_49 % _10;
if (_11 == 0)
goto <bb 11>; [50.00%]
else
goto <bb 12>; [50.00%]
50%
50%
FREQ:750
<bb 11>:
adj_addr_25 = _15 + adj_addr_49;
100%
FREQ:773
<bb 8>:
adj_addr_27 = true_addr_24 + 1;
goto <bb 12>; [100.00%]
100%
FREQ:2273
<bb 12>:
# adj_addr_13 = PHI <adj_addr_27(8), adj_addr_49(10), adj_addr_25(11)>
returnval_28 = (ulong) *( adj_addr_13);
mem_array_ents.7_33 = mem_array_ents;
if (mem_array_ents.7_33 > 19)
goto <bb 14>; [54.00%]
else
goto <bb 13>; [46.00%]
50%
50%
46%
54%
FREQ:1136
<bb 4>:
*errorcode_21(D) = 2;
goto <bb 15>; [100.00%]
FREQ:1136
<bb 5>:
mem_array0[mem_array_ents.7_33] = true_addr_24;
mem_array1[mem_array_ents.7_33] = true_addr_24;
_34 = mem_array_ents.7_33 + 1;
mem_array_ents = _34;
goto <bb 15>; [100.00%]
FREQ:1045
<bb 13>:
mem_array0[mem_array_ents.7_33] = true_addr_24;
mem_array1[mem_array_ents.7_33] = adj_addr_13;
_36 = mem_array_ents.7_33 + 1;
mem_array_ents = _36;
goto <bb 15>; [100.00%]
FREQ:1227
<bb 14>:
*errorcode_21(D) = 2;
100%
100%
100%
100%
FREQ:4545
<bb 15>:
# _14 = PHI <returnval_20(4), returnval_28(14), returnval_28(13), returnval_20(5)>
return _14;
100%
EXIT
FreeMemory ()
ENTRY
100%
FREQ:1444
<bb 2>:
adj_addr_5 = (long unsigned int) mempointer_4(D);
mem_array_ents.13_29 = mem_array_ents;
if (mem_array_ents.13_29 > 0)
goto <bb 3>; [92.50%]
else
goto <bb 8>; [7.50%]
92%
8%
FREQ:1332
<bb 3>:
_27 = mem_array[1][0];
if (adj_addr_5 == _27)
goto <bb 5>; [7.50%]
else
goto <bb 8>; [92.50%]
92%
8%
loop 2
FREQ:9260
<bb 8>:
# i_31 = PHI <i_20(4), 0(3)>
i_20 = i_31 + 1;
if (i_20 < mem_array_ents.13_29)
goto <bb 4>; [92.50%]
else
goto <bb 9>; [7.50%]
92%
92%
92%
8%
8%
FREQ:7918
<bb 4>:
_13 = mem_array[1][i_20];
if (adj_addr_5 == _13)
goto <bb 5>; [7.50%]
else
goto <bb 8>; [92.50%]
92%
8%
FREQ:694
<bb 5>:
# i_30 = PHI <i_20(4), 0(3)>
_14 = mem_array[0][i_30];
_26 = i_30 + 1;
if (_26 < mem_array_ents.13_29)
goto <bb 6>; [85.00%]
else
goto <bb 7>; [15.00%]
85%
15%
loop 1
FREQ:3931
<bb 6>:
# _32 = PHI <_15(6), _26(5)>
# _33 = PHI <_32(6), i_30(5)>
_16 = mem_array0[_32];
mem_array0[_33] = _16;
_18 = mem_array1[_32];
mem_array1[_33] = _18;
_15 = _32 + 1;
if (_15 < mem_array_ents.13_29)
goto <bb 6>; [85.00%]
else
goto <bb 7>; [15.00%]
85%
15%
FREQ:694
<bb 7>:
_19 = mem_array_ents.13_29 + -1;
mem_array_ents = _19;
memopointer_7 = (ulong4 *)  14;
free (memopointer_7);
*errorcode_9(D) = 0;
goto <bb 10>; [100.00%]
15%
7%
7%
FREQ:750
<bb 9>:
*errorcode_9(D) = 3;
100%
100%
FREQ:1444
<bb 10>:
return;
100%
EXIT
MoveMemory ()
ENTRY
100%
FREQ:10000
<bb 2>:
__builtin_memmove (destination_2(D), source_3(D), sbytes_4(D));
return;
100%
EXIT
InitMemArray ()
ENTRY
100%
FREQ:10000
<bb 2>:
mem_array_ents = 0;
return;
100%
EXIT
AddMemArray ()
ENTRY
100%
FREQ:10000
<bb 2>:
mem_array_ents.7_1 = mem_array_ents;
if (mem_array_ents.7_1 > 19)
goto <bb 4>; [1.00%]
else
goto <bb 3>; [98.00%]
98%
2%
FREQ:9800
<bb 3>:
mem_array0[mem_array_ents.7_1] = true_addr_6(D);
mem_array1[mem_array_ents.7_1] = adj_addr_8(D);
_2 = mem_array_ents.7_1 + 1;
mem_array_ents = _2;
100%
FREQ:10000
<bb 4>:
# _3 = PHI <-1(2), 0(3)>
return _3;
100%
EXIT
RemoveMemArray ()
ENTRY
100%
FREQ:1444
<bb 2>:
mem_array_ents.13_26 = mem_array_ents;
if (mem_array_ents.13_26 > 0)
goto <bb 3>; [92.50%]
else
goto <bb 9>; [7.50%]
92%
8%
FREQ:1332
<bb 3>:
_25 = mem_array[1][0];
if (adj_addr_13(D) == _25)
goto <bb 5>; [7.50%]
else
goto <bb 8>; [92.50%]
92%
8%
loop 1
FREQ:9260
<bb 8>:
# i_30 = PHI <i_16(4), 0(3)>
i_16 = i_30 + 1;
if (i_16 < mem_array_ents.13_26)
goto <bb 4>; [92.50%]
else
goto <bb 9>; [7.50%]
92%
92%
92%
8%
8%
FREQ:7918
<bb 4>:
_1 = mem_array[1][i_16];
if (_1 == adj_addr_13(D))
goto <bb 5>; [7.50%]
else
goto <bb 8>; [92.50%]
92%
8%
FREQ:694
<bb 5>:
# i_29 = PHI <i_16(4), 0(3)>
_2 = mem_array0[i_29];
*true_addr_17(D) = _2;
_24 = i_29 + 1;
if (_24 < mem_array_ents.13_26)
goto <bb 6>; [85.00%]
else
goto <bb 7>; [15.00%]
85%
15%
loop 2
FREQ:3931
<bb 6>:
# _27 = PHI <_5(6), _24(5)>
# i_31 = PHI <_27(6), i_29(5)>
_3 = mem_array0[_27];
mem_array0[i_31] = _3;
_4 = mem_array1[_27];
mem_array1[i_31] = _4;
_5 = _27 + 1;
if (_5 < mem_array_ents.13_26)
goto <bb 6>; [85.00%]
else
goto <bb 7>; [15.00%]
85%
15%
FREQ:694
<bb 7>:
_7 = mem_array_ents.13_26 + -1;
mem_array_ents = _7;
goto <bb 9>; [100.00%]
15%
7%
7%
FREQ:1444
<bb 9>:
# _11 = PHI <0(7), -1(8), -1(2)>
return _11;
100%
EXIT
CreateFile ()
ENTRY
100%
FREQ:10000
<bb 2>:
fhandle_3 = fopen (filename_3(D), "w+");
if (fhandle_3 == 0B)
goto <bb 4>; [26.74%]
else
goto <bb 3>; [73.26%]
73%
26%
FREQ:7326
<bb 3>:
73%
FREQ:10000
<bb 4>:
# column_11 = PHI <10(2), 0(3)>
*errorcode_6(D) = column_11;
fclose (fhandle_5);
return;
100%
EXIT
InitOpenFile ()
ENTRY
100%
FREQ:10000
<bb 2>:
fhandle_5 = fopen (fname_3(D), "w+");
if (fhandle_5 == 0B)
goto <bb 4>; [26.74%]
else
goto <bb 3>; [73.26%]
73%
26%
FREQ:7326
<bb 3>:
73%
FREQ:10000
<bb 4>:
# column_10 = PHI <13(2), 0(3)>
*errorcode_6(D) = column_10;
return fhandle_5;
100%
EXIT
CloseFile ()
ENTRY
100%
FREQ:10000
<bb 2>:
fclose (fhandle_2(D));
*errorcode_4(D) = 0;
return;
100%
EXIT
readfile ()
ENTRY
100%
FREQ:10000
<bb 2>:
*errorcode_5(D) = 0;
offset_14 = (long int) offset_7(D);
_2 = fseek (fhandle_8(D), offset_14, 1_6);
if (_2 == -1)
goto <bb 3>; [50.50%]
else
goto <bb 4>; [49.50%]
50%
50%
FREQ:6950
<bb 4>:
nelems_11 = sbytes_10(D) & 65535;
if (nelems_11 != 19)
goto <bb 5>; [85.50%]
else
goto <bb 6>; [30.50%]
30%
70%
FREQ:3850
<bb 5>:
*errorcode_5(D) = 14;
goto <bb 6>; [100.00%]
FREQ:4830
<bb 6>:
*errorcode_5(D) = 11;
100%
100%
30%
FREQ:10000
<bb 6>:
return;
100%
EXIT
writefile ()
ENTRY
100%
FREQ:10000
<bb 2>:
*errorcode_5(D) = 0;
offset_15 = (long int) offset_7(D);
_2 = fseek (fhandle_8(D), offset_15, 1_6);
if (_2 == -1)
goto <bb 3>; [47.12%]
else
goto <bb 4>; [52.88%]
47%
53%
FREQ:4712
<bb 3>:
*errorcode_5(D) = 14;
goto <bb 6>; [100.00%]
FREQ:5288
<bb 4>:
nelems_11 = sbytes_10(D) & 65535;
writecode_14 = fwrite (buffer_12(D), 1, nelems_11, fhandle_8(D));
if (nelems_11 == writecode_14)
goto <bb 5>; [37.68%]
else
goto <bb 6>; [62.32%]
37%
63%
FREQ:1993
<bb 5>:
*errorcode_5(D) = 12;
100%
100%
62%
FREQ:10000
<bb 6>:
return;
100%
EXIT
ReportError ()
ENTRY
100%
FREQ:10000
<bb 2>:
__printf_chk (1, "ERROR CONDITION\nContext: %s\n", errorcontext_2(D));
__printf_chk (1, "Code: %d", errorcode_3(D));
return;
100%
EXIT
ErrorExit ()
ENTRY
100%
FREQ:10000
<bb 2>:
exit (1);
EXIT
StartStopwatch ()
ENTRY
100%
FREQ:10000
<bb 2>:
_1 = clock ();
_4 = (long unsigned int) _1;
return _4;
100%
EXIT
StopStopwatch ()
ENTRY
100%
FREQ:10000
<bb 2>:
_1 = clock ();
_2 = (long unsigned int) _1;
_6 = _2 - startticks_5(D);
return _6;
100%
EXIT
TicksToSecs ()
ENTRY
100%
FREQ:10000
<bb 2>:
_2 = tickamount_1(D) / 1000000;
return _2;
100%
EXIT
TicksToFreeSecs ()
ENTRY
100%
FREQ:10000
<bb 2>:
_1 = (double) tickamount_2(D);
_3 = _1 / 1.0e+6;
return _3;
100%
EXIT