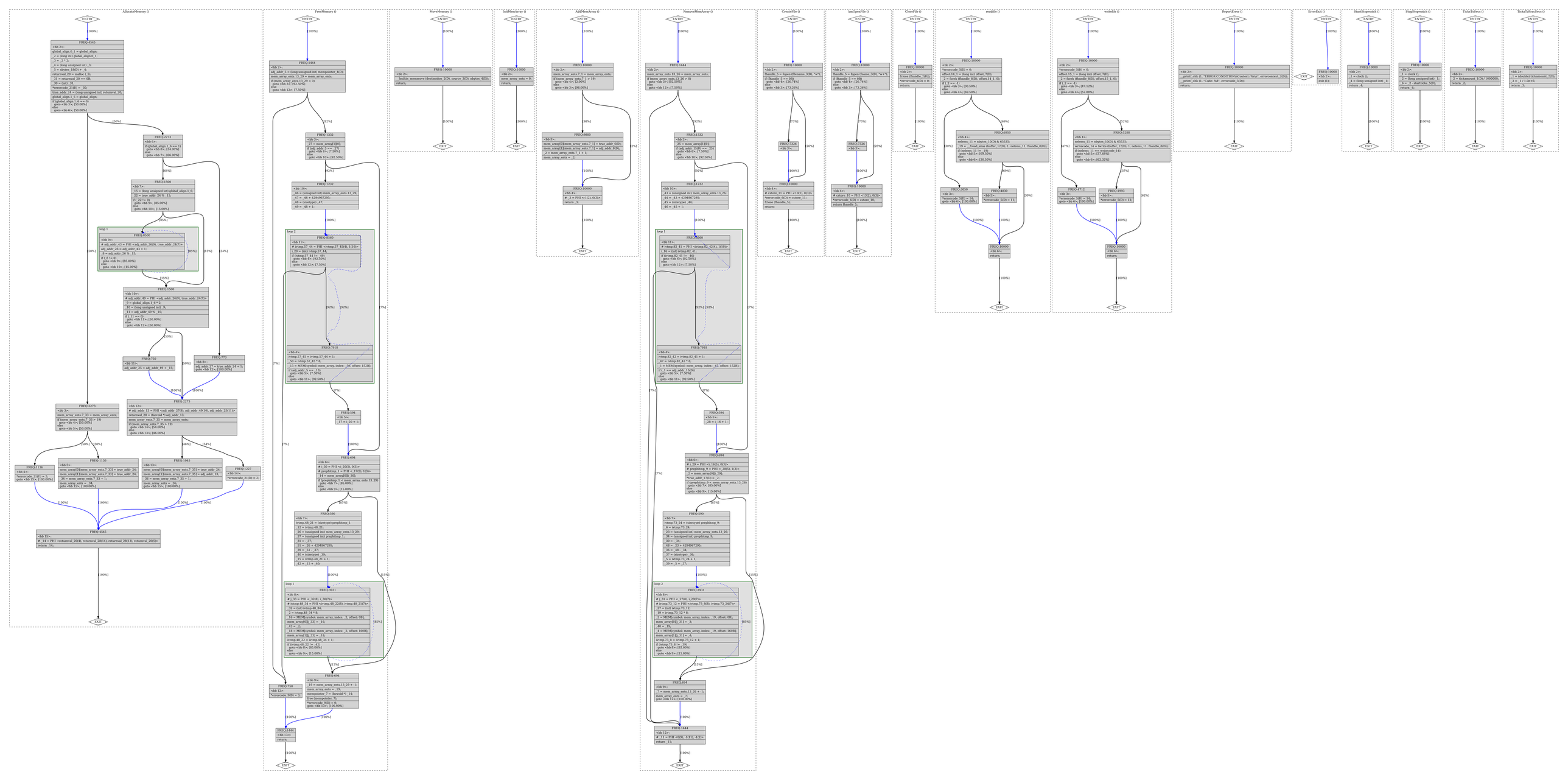
AllocateMemory ()
ENTRY
100%
FREQ:6345
<bb 2>:
global_align.0_1 = global_align;
_2 = (long int) global_align.0_1;
_3 = _2 * 2;
_4 = (long unsigned int) _3;
_5 = mbytes_10(D) + _4;
returnval_20 = malloc (_5);
_31 = returnval_20 == 0B;
_30 = (int) _31;
*errorcode_21(D) = _30;
true_addr_24 = (long unsigned 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>; [36.00%]
goto <bb 7>; [64.00%]
36%
64%
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:6500
<bb 9>:
# adj_addr_43 = PHI <adj_addr_26(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 = adj_addr_49 + _13;
50%
FREQ:773
<bb 8>:
adj_addr_27 = true_addr_24 + 1;
goto <bb 12>; [100.00%]
100%
100%
FREQ:2273
<bb 12>:
# adj_addr_13 = PHI <adj_addr_27(8), adj_addr_49(10), adj_addr_25(11)>
returnval_28 = (farvoid *) adj_addr_13;
mem_array_ents.7_35 = mem_array_ents;
if (mem_array_ents.7_35 > 10)
goto <bb 14>; [54.00%]
else
goto <bb 13>; [46.00%]
46%
54%
FREQ:2273
<bb 3>:
mem_array_ents.7_33 = mem_array_ents;
if (mem_array_ents.7_33 > 19)
goto <bb 4>; [50.00%]
goto <bb 5>; [50.00%]
50%
50%
FREQ:1138
<bb 4>:
*errorcode_21(D) = 2;
goto <bb 15>; [100.00%]
100%
FREQ:1136
<bb 5>:
mem_array[0].mem_array_ents.7_33 = true_addr_24;
mem_array[1].mem_array_ents.7_33 = true_addr_24;
_34 = mem_array_ents.7_33 + 1;
mem_array_ents = _34;
goto <bb 15>; [100.00%]
100%
FREQ:1045
<bb 13>:
mem_array[0].mem_array_ents.7_35 = true_addr_24;
mem_array[1].mem_array_ents.7_35 = adj_addr_13;
_36 = mem_array_ents.7_35 + 1;
mem_array_ents = _36;
goto <bb 15>; [100.00%]
100%
FREQ:1227
<bb 14>:
*errorcode_21(D) = 2;
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.11_29 = mem_array_ents;
if (mem_error_ents.13_29 > 0)
goto <bb 3>; [92.50%]
else
goto <bb 12>; [7.50%]
92%
8%
FREQ:1332
<bb 3>:
_27 = mem_array[1].f[0];
if (adj_addr_5 == _27)
goto <bb 6>; [7.50%]
else
goto <bb 10>; [92.50%]
92%
8%
FREQ:1232
<bb 10>:
_46 = (unsigned int) mem_array_ents.13_29;
_47 = _46 - 4294967295;
48 = (uintptr 47);
_49 = _48 + 1;
100%
loop 2
FREQ:6560
<bb 11>:
# ivtmp.57_44 = PHI <ivtmp.57_45(4), 1(10)>
i_20 = (int) ivtmp.57_44;
if (ivtmp.57_44 != _49)
goto <bb 4>; [92.50%]
else
goto <bb 12>; [7.50%]
92%
8%
92%
8%
FREQ:7918
<bb 4>:
ivtmp.57_45 = ivtmp.57_44 + 1;
_50 = ivtmp.57_45 * 8;
_13 = MEM[symbol: mem_array, index: _50, offset: 1528];
if (adj_addr_5 == _13)
goto <bb 5>; [7.50%]
else
goto <bb 11>; [92.50%]
7%
93%
FREQ:1594
<bb 5>:
_17 = i_20 + 1;
100%
FREQ:694
<bb 6>:
# i_30 = PHI <1, 20(5), 0(3)>
# prephitmp_1 = PHI <_17(5), 1(3)>
_14 = mem_array[0][0]._30;
if (prephitmp_1 < mem_array_ents.13_29)
goto <bb 7>; [85.00%]
else
goto <bb 9>; [15.00%]
85%
15%
FREQ:590
<bb 7>:
ivtmp.48_21 = (uintptr) prephitmp_1;
_12 = ivtmp.48_21;
_26 = (unsigned int) mem_array_ents.13_29;
_57 = (unsigned int) prephitmp_1;
_31 = -_57;
_51 = _26 + 4294967295;
_59 = _51 - _57;
_60 = (uintptr) _59;
_15 = ivtmp.48_21 + 1;
_42 = _15 + _60;
100%
loop 1
FREQ:3931
<bb 8>:
# _33 = PHI < _32(8), i_30(7)>
# ivtmp.48_34 = PHI <ivtmp.48_22(8), ivtmp.48_21(7)>
_32 = (int) ivtmp.48_34;
_2 = ivtmp.48_34 * 8;
_16 = MEM[symbol: mem_array, index: _2, offset: 0B];
mem_array[0][_33] = _16;
_43 = -_2;
_18 = MEM[symbol: mem_array, index: _2, offset: 1608];
mem_array[1][_33] = _18;
ivtmp.48_22 = ivtmp.48_34 + 1;
if (ivtmp.48_22 != _42)
goto <bb 8>; [85.00%]
else
goto <bb 9>; [15.00%]
85%
15%
FREQ:694
<bb 9>:
_19 = mem_array_ents.13_29 + -1;
mem_array_ents = _19;
mempointer_7 = (farvoid *) _14;
free (mempointer_7);
*errorcode_9(D) = 0;
goto <bb 13>; [100.00%]
100%
FREQ:750
<bb 12>:
*errorcode_9(D) = 3;
100%
FREQ:1444
<bb 13>:
return;
100%
EXIT
MoveMemory ()
ENTRY
100%
FREQ:10000
<bb 2>:
__builtin_memmove (destination_21(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>; [2.00%]
goto <bb 3>; [98.00%]
98%
2%
FREQ:9800
<bb 3>:
mem_array[0][mem_array_ents.7_1] = true_addr_6(D);
mem_array[1][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 <(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%]
goto <bb 12>; [7.50%]
92%
8%
FREQ:1332
<bb 3>:
_25 = mem_array[1][0];
if (adj_addr_15(D) == _25)
goto <bb 6>; [7.50%]
else
goto <bb 10>; [92.50%]
92%
8%
FREQ:1232
<bb 10>:
_43 = (unsigned int) mem_array_ents.13_26;
_44 = _43 + 4294967295;
45 = (uintptr 44);
_46 = _45 + 1;
100%
loop 1
FREQ:6560
<bb 11>:
# ivtmp.82_41 = PHI <ivtmp.82_42(4), 1(10)>
i_16 = (int) ivtmp.82_41;
if (ivtmp.82_41 != _46)
goto <bb 4>; [92.50%]
else
goto <bb 12>; [7.50%]
92%
8%
92%
8%
FREQ:7918
<bb 4>:
ivtmp.82_42 = ivtmp.82_41 + 1;
_47 = ivtmp.82_42 * 8;
_1 = MEM[symbol: mem_array, index: _47, offset: 1528];
if (i_1 == adj_addr_15(D))
goto <bb 5>; [7.50%]
else
goto <bb 11>; [92.50%]
7%
93%
FREQ:1594
<bb 5>:
_28 = i_16 + 1;
100%
FREQ:694
<bb 6>:
# i_29 = PHI <i_16(5), 0(3)>
# prephitmp_9 = PHI <_28(5), 1(3)>
_2 = mem_array[0]._29;
*true_addr_37(D) = _2;
if (prephitmp_9 < mem_array_ents.13_26)
goto <bb 7>; [85.00%]
else
goto <bb 9>; [15.00%]
85%
15%
FREQ:590
<bb 7>:
ivtmp.73_24 = (uintptr) prephitmp_9;
_6 = ivtmp.73_24;
_23 = (unsigned int) mem_array_ents.13_26;
_34 = (unsigned int) prephitmp_9;
_30 = -_34;
_48 = _23 + 4294967295;
_36 = _48 - _34;
_37 = (uintptr) _36;
_5 = ivtmp.73_24 + 1;
_39 = _5 + _37;
100%
loop 2
FREQ:3931
<bb 8>:
# i_31 = PHI <_27(8), i_29(7)>
# ivtmp.73_12 = PHI <ivtmp.73_8(8), ivtmp.73_24(7)>
_27 = (int) ivtmp.73_12;
_10 = ivtmp.73_12 * 8;
_3 = MEM[symbol: mem_array, index: _10, offset: 0B];
mem_array[0][_31] = _3;
_40 = -_10;
_4 = MEM[symbol: mem_array, index: _10, offset: 1608];
mem_array[1][_31] = _4;
ivtmp.73_8 = ivtmp.73_12 + 1;
if (ivtmp.73_8 != _39)
goto <bb 8>; [85.00%]
else
goto <bb 9>; [15.00%]
85%
15%
FREQ:694
<bb 9>:
_7 = mem_array_ents.13_26 + -1;
mem_array_ents = _7;
goto <bb 12>; [100.00%]
100%
FREQ:1444
<bb 12>:
_11 = PHI <0(9), 1(11), 1(2)>
return _11;
100%
EXIT
CreateFile ()
ENTRY
100%
FREQ:10000
<bb 2>:
_1 = flandle_5 != fopen (filename_3(D), "w");
if (flandle_5 == 0B)
goto <bb 4>; [26.74%]
goto <bb 3>; [73.26%]
73%
26%
FREQ:7526
<bb 3>:
100%
FREQ:10000
<bb 4>:
# cstore_11 = PHI <1(2), 0(3)>
*errorcode_6(D) = cstore_11;
fclose (flandle_5);
return;
100%
EXIT
ImtOpenFile ()
ENTRY
100%
FREQ:10000
<bb 2>:
flandle_5 = fopen (fname_3(D), "w+");
if (flandle_5 == 0B)
goto <bb 4>; [26.74%]
goto <bb 3>; [73.26%]
73%
26%
FREQ:7526
<bb 3>:
100%
FREQ:10000
<bb 4>:
# cstore_10 = PHI <1(2), 0(3)>
*errorcode_6(D) = cstore_10;
return flandle_5;
100%
EXIT
CloseFile ()
ENTRY
100%
FREQ:10000
<bb 2>:
fclose (flandle_2(D));
*errorcode_4(D) = 0;
return;
100%
EXIT
readfile ()
ENTRY
100%
FREQ:10000
<bb 2>:
*errorcode_5(D) = 0;
offset.14_1 = (long int) offset_7(D);
_2 = fseek (flandle_8(D), offset.14_1, 0);
if (_2 == -1)
goto <bb 3>; [47.12%]
else
goto <bb 6>; [52.88%]
47%
53%
FREQ:4712
<bb 3>:
*errorcode_5(D) = 14;
goto <bb 6>; [100.00%]
100%
FREQ:5288
<bb 4>:
nelems_11 = nbytes_10(D) & 65535;
writecode.14 = fwrite (buffer_12(D), 1, nelems_11, flandle_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%
FREQ:6950
<bb 6>:
nelems_11 = nbytes_10(D) & 65535;
_19 = __fread_alias (buffer_12(D), 1, nelems_11, flandle_8(D));
if (nelems_11 != _19)
goto <bb 1>; [69.50%]
goto <bb 6>; [30.50%]
70%
30%
FREQ:3050
<bb 3>:
*errorcode_5(D) = 14;
goto <bb 6>; [100.00%]
100%
FREQ:4830
<bb 5>:
*errorcode_5(D) = 11;
100%
FREQ:10000
<bb 6>:
return;
100%
EXIT
writefile ()
ENTRY
100%
FREQ:10000
<bb 2>:
*errorcode_5(D) = 0;
offset.15_1 = (long int) offset_7(D);
_2 = fseek (flandle_8(D), offset.15_1, 0);
if (_2 == -1)
goto <bb 3>; [47.12%]
goto <bb 6>; [52.88%]
47%
53%
FREQ:4712
<bb 3>:
*errorcode_5(D) = 14;
goto <bb 6>; [100.00%]
100%
FREQ:5288
<bb 4>:
nelems_11 = nbytes_10(D) & 65535;
writecode.14 = fwrite (buffer_12(D), 1, nelems_11, flandle_8(D));
if (nelems_11 == writecode.14)
goto <bb 5>; [37.68%]
goto <bb 6>; [62.32%]
37%
63%
FREQ:1993
<bb 5>:
*errorcode_5(D) = 12;
100%
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
TicksToFracSecs ()
ENTRY
100%
FREQ:10000
<bb 2>:
_1 = (double) tickamount_2(D);
_3 = _1 / 1.0e+6;
return _3;
100%
EXIT