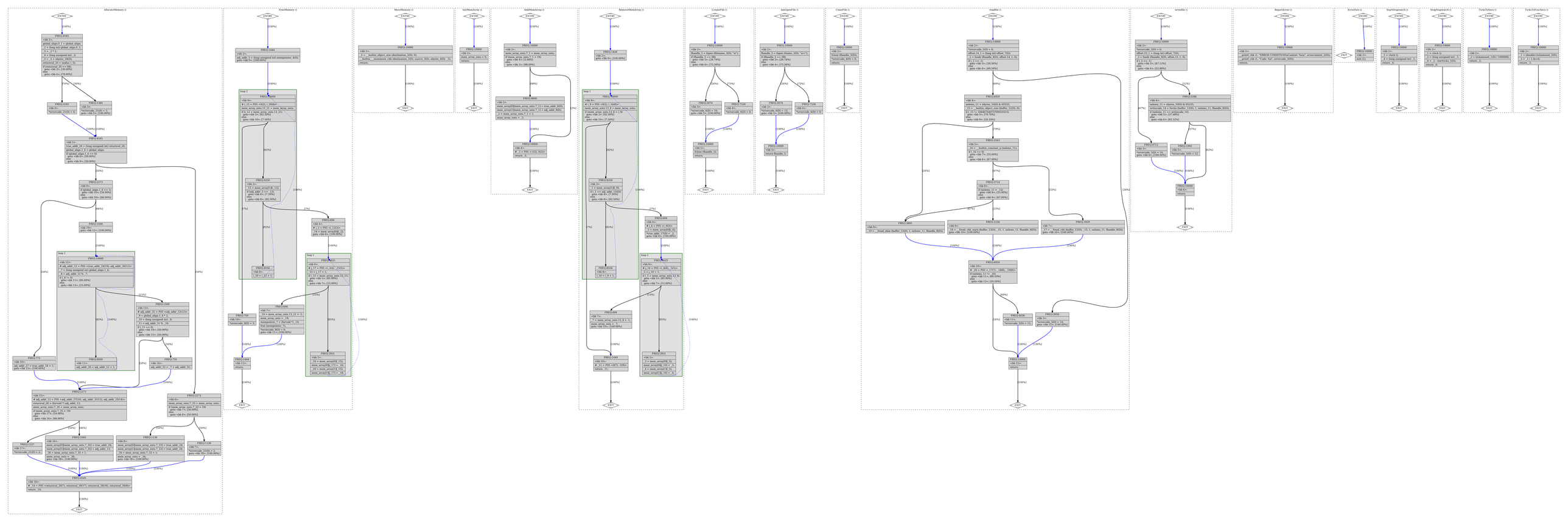
AllocateMemory ()
ENTRY
100%
FREQ:41543
%bb 2:=
global_align.0: 1 = global_align.
2 = (long int) global_align.1;
4 = (long unsigned int) 2;
5 = (long unsigned int) 3;
n_elements_2: = n_elements_1(D);
returnval_20 = malloc (5);
if (returnval_20 == 0)
goto <bb 3>; [30.00%]
else
goto <bb 4>; [70.00%]
30%
70%
FREQ:21182
%bb 6:=
*memcmpeq_21(20) = 0;
goto <bb 5>; [100.00%]
FREQ:13364
%bb 3:=
memcpy (returnval_20(D), s_2(D), n_elements_1(D));
goto <bb 5>; [100.00%]
100%
100%
FREQ:41543
%bb 5:=
true_addr_24 = (long unsigned int) returnval_20;
global_align.3 = global_align;
if (global_align.3_6 == 0)
goto <bb 9>; [50.00%]
else
goto <bb 9>; [50.00%]
50%
50%
FREQ:2373
%bb 9:=
if (global_align.3_6 == 1)
goto <bb 10>; [56.00%]
goto <bb 10>; [44.00%]
44%
56%
FREQ:1500
%bb 10:=
goto <bb 12>; [100.00%]
100%
loop 1
FREQ:10000
%bb 12:=
# adj_addr_12 = PHI <true_addr_24(10), adj_addr_26(11)>
# global_align.3_8 = PHI <global_align.3_6, 1(10), global_align.3_9(11)>
# i_13 = PHI <0(10), i_28(11)>
# 0 = adj_addr_12 % 2;
i_28 = i_13 + 1;
if (i_13 == 0)
goto <bb 11>; [85.00%]
else
goto <bb 13>; [15.00%]
15%
85%
100%
FREQ:1500
%bb 13:=
# adj_addr_31 = PHI <adj_addr_12(12)>
_9 = global_align.3_8 * 2;
_10 = (long unsigned int) _9;
if (i_13 == 0)
goto <bb 15>; [50.00%]
else
goto <bb 15>; [50.00%]
50%
50%
FREQ:773
%bb 11:=
adj_addr_27 = true_addr_24 + 1;
goto <bb 15>; [100.00%]
FREQ:8500
%bb 11:=
adj_addr_26 = adj_addr_12 + 1;
FREQ:750
%bb 14:=
adj_addr_35 = -* adj_addr_31;
100%
100%
100%
FREQ:1501
%bb 15:=
# adj_addr_13 = PHI <adj_addr_27(15), adj_addr_31(13), adj_addr_35(14)>
returnval_20 = (ferved *) adj_addr_13;
mem_array_entry_7_25 = mem_array_entry;
if (mem_array_entry_7_25 > 19)
goto <bb 17>; [34.00%]
else
goto <bb 16>; [66.00%]
66%
34%
FREQ:2273
%bb 6:=
mem_array_entry_7_33 = mem_array_entry;
if (mem_array_entry_7_33 > 33)
goto <bb 7>; [50.00%]
else
goto <bb 9>; [50.00%]
50%
50%
FREQ:1227
%bb 17:=
*memcmpeq_21(20) = 2;
FREQ:1041
%bb 16:=
mem_array[0][mem_array_entry_7_35] = true_addr_24;
mem_array[1][mem_array_entry_7_35] = adj_addr_13;
_36 = mem_array_entry_7_25 + 1;
mem_array_entry = _36;
goto <bb 18>; [100.00%]
FREQ:1136
%bb 8:=
mem_array[0][mem_array_entry_7_33] = true_addr_24;
mem_array[1][mem_array_entry_7_33] = true_addr_24;
_34 = mem_array_entry_7_33 + 1;
mem_array_entry = _34;
goto <bb 7>; [100.00%]
FREQ:1136
%bb 7:=
*memcmpeq_21(20) = 1;
goto <bb 18>; [100.00%]
100%
100%
100%
FREQ:41543
%bb 18:=
_14 = PHI <returnval_20(7), returnval_20(17), returnval_20(16), returnval_20(8)>
return _14;
EXIT
100%
FreeMemory ()
ENTRY
100%
FREQ:1444
%bb 2:=
free (adj_addr_1, 0 [long unsigned int] memposition: 4(D));
goto <bb 9>; [100.00%]
100%
loop 2
FREQ:10000
%bb 9:=
# i_12 = PHI <0(2), i_20(6)>
mem_array_entry_11 = mem_array_entry;
if (i_12 < mem_array_entry_11_31)
goto <bb 3>; [92.70%]
else
goto <bb 10>; [7.30%]
7%
93%
100%
FREQ:9250
%bb 3:=
_13 = mem_array[i_12];
if (_13 == adj_addr_1)
goto <bb 4>; [7.00%]
else
goto <bb 6>; [93.00%]
7%
93%
100%
FREQ:8556
%bb 4:=
i_20 = i_12 + 1;
FREQ:894
%bb 6:=
# i_2 = PHI <i_12(3)>
_14 = mem_array[i_2];
goto <bb 8>; [100.00%]
100%
loop 1
FREQ:9225
%bb 8:=
# _17 = PHI <i_20(5), _15(G)>
_15 = _17 + 1;
if (_15 == mem_array_entry_11_31)
goto <bb 5>; [85.00%]
goto <bb 7>; [15.00%]
15%
85%
100%
FREQ:894
%bb 7:=
_16 = mem_array[_15 (I) + 4];
mem_array_entry = _15;
memposition.7 = (ferved *) _14;
free (memposition_7);
*memcmpeq_3(0) = 0;
goto <bb 15>; [100.00%]
FREQ:2931
%bb 5:=
_18 = mem_array[i_20];
mem_array[i_17] = _18;
_19 = mem_array[(I_17) + 4];
mem_array[(I_17) + 4] = _19;
100%
100%
FREQ:1444
%bb 15:=
return;
EXIT
100%
MemsetMemory ()
ENTRY
100%
FREQ:10000
%bb 2:=
_5 = __builtin_object_size (destination_3(D), 0);
builtin__memmoveor_chk (destination_3(D), source_3(D), s(D), _5);
return;
EXIT
100%
IntMemArray ()
ENTRY
100%
FREQ:10000
%bb 2:=
mem_array_entry = 0;
return;
EXIT
100%
AddMemArray ()
ENTRY
100%
FREQ:10000
%bb 2:=
mem_array_entry_7 = mem_array_entry;
if (mem_array_entry_7 < 19)
goto <bb 4>; [100.00%]
else
goto <bb 3>; [0.00%]
100%
0%
FREQ:10000
%bb 3:=
mem_array[(mem_array_entry_7 * 1)] = true_addr_4(D);
mem_array[((mem_array_entry_7 * 1) + 4)] = adj_addr_8(D);
_2 = mem_array_entry_7 + 1;
mem_array_entry = _2;
100%
FREQ:10000
%bb 4:=
_1 = PHI <1(2), 0(3)>
return _1;
EXIT
100%
RemoveMemArray ()
ENTRY
100%
FREQ:1444
%bb 2:=
goto <bb 9>; [100.00%]
100%
loop 1
FREQ:10000
%bb 9:=
# i_9 = PHI <0(2), i_16(8)>
mem_array_entry_11_9 = mem_array_entry;
if (mem_array_entry_11_9 < 19)
goto <bb 3>; [92.50%]
else
goto <bb 10>; [7.50%]
7%
93%
100%
FREQ:9250
%bb 3:=
_12 = mem_array[i_9];
if (_12 == adj_addr_1(D))
goto <bb 4>; [7.00%]
else
goto <bb 6>; [93.00%]
7%
93%
100%
FREQ:8556
%bb 4:=
i_16 = i_9 + 1;
FREQ:894
%bb 6:=
# i_3 = PHI <i_9(3)>
_13 = mem_array[(I_3) + 4];
*true_addr_17(D) = _13;
goto <bb 8>; [100.00%]
100%
loop 2
FREQ:9225
%bb 8:=
# i_10 = PHI <i_6(A), _5(I)>
_5 = i_10 + 1;
if (_5 < mem_array_entry_11_9)
goto <bb 5>; [85.00%]
goto <bb 7>; [15.00%]
15%
85%
100%
FREQ:894
%bb 7:=
_6 = mem_array_entry_11_9 + -1;
mem_array_entry = _6;
goto <bb 15>; [100.00%]
FREQ:2931
%bb 5:=
_7 = (I) * 8;
_8 = mem_array[(I_5) + 4];
mem_array[(I_5)] = _8;
_9 = mem_array[(I_5) + 4];
mem_array[(I_5) + 4] = _9;
100%
100%
FREQ:1444
%bb 10:=
_11 = PHI <0(7), 1(9)>
return _11;
EXIT
100%
CreateFile ()
ENTRY
100%
FREQ:10000
%bb 2:=
fhandle_5 = fopen (filename_3(D), "w");
if (fhandle_5 == 0B)
goto <bb 3>; [26.74%]
else
goto <bb 4>; [73.26%]
27%
73%
FREQ:2674
%bb 3:=
*errorcode_6(D) = 1;
goto <bb 5>; [100.00%]
FREQ:7326
%bb 4:=
*errorcode_6(D) = 0;
100%
100%
FREQ:10000
%bb 5:=
fclose (fhandle_5);
return;
EXIT
100%
IntOpenFile ()
ENTRY
100%
FREQ:10000
%bb 2:=
fhandle_5 = fopen (fname_3(D), "w+");
if (fhandle_5 == 0B)
goto <bb 3>; [26.74%]
else
goto <bb 4>; [73.26%]
27%
73%
FREQ:2674
%bb 3:=
*errorcode_6(D) = 1;
goto <bb 5>; [100.00%]
FREQ:7326
%bb 4:=
*errorcode_6(D) = 0;
100%
100%
FREQ:10000
%bb 5:=
return fhandle_5;
EXIT
100%
CloseFile ()
ENTRY
100%
FREQ:10000
%bb 2:=
fclose (fhandle_3(D));
*errorcode_4(D) = 0;
return;
EXIT
100%
readfile ()
ENTRY
100%
FREQ:10000
%bb 2:=
*errorcode_5(D) = 0;
offset.14_1 = (long int) offset_7(D);
_2 = fseek (fhandle_8(D), offset.14_1, 0);
if (_2 == -1)
goto <bb 3>; [20.50%]
else
goto <bb 4>; [79.50%]
21%
79%
FREQ:4950
%bb 4:=
nelems_11 = nbytes_10(D) & 65535;
_11 = __builtin_object_size (fhandle_8(D), 0);
if (_11 != 18446744073709551615)
goto <bb 5>; [79.76%]
else
goto <bb 9>; [20.24%]
20%
80%
FREQ:5561
%bb 5:=
_16 = __builtin_constant_p (nelems_11);
if (_16 == 1)
goto <bb 7>; [13.00%]
else
goto <bb 6>; [87.00%]
13%
87%
FREQ:3714
%bb 6:=
if (nelems_11 != 1)
goto <bb 8>; [25.00%]
goto <bb 9>; [87.00%]
87%
13%
FREQ:3895
%bb 9:=
_19 = __fread_alias (buffer_12(D), 1, nelems_11, fhandle_8(D));
FREQ:2226
%bb 8:=
_18 = __fread_chk_warn (buffer_12(D), _11, 1, nelems_11, fhandle_8(D));
goto <bb 10>; [100.00%]
FREQ:1829
%bb 7:=
_17 = __fread_chk (buffer_12(D), _11, 1, nelems_11, fhandle_8(D));
goto <bb 10>; [100.00%]
100%
100%
100%
FREQ:4850
%bb 10:=
# _20 = PHI <_17(7), _18(8), _19(9)>
if (nelems_11 != _20)
goto <bb 11>; [50.50%]
else
goto <bb 12>; [49.50%]
50%
50%
FREQ:4836
%bb 11:=
*errorcode_5(D) = 11;
FREQ:4850
%bb 23:=
*errorcode_5(D) = 14;
goto <bb 12>; [100.00%]
100%
100%
FREQ:10000
%bb 12:=
return;
EXIT
100%
writefile ()
ENTRY
100%
FREQ:10000
%bb 2:=
*errorcode_5(D) = 0;
offset.13_1 = (long int) offset_7(D);
_2 = fseek (fhandle_8(D), offset.13_1, 0);
if (_2 == -1)
goto <bb 3>; [87.12%]
else
goto <bb 4>; [12.88%]
87%
13%
FREQ:4752
%bb 3:=
*errorcode_5(D) = 14;
goto <bb 6>; [100.00%]
FREQ:1098
%bb 4:=
nelems_11 = nbytes_10(D) & 65535;
writecnt.0 = fwrite (buffer_12(D), 1, nelems_11, fhandle_8(D));
if (nelems_11 == writecnt.0)
goto <bb 5>; [37.68%]
else
goto <bb 6>; [62.32%]
38%
62%
FREQ:1991
%bb 5:=
*errorcode_5(D) = 12;
100%
100%
FREQ:10000
%bb 6:=
return;
EXIT
100%
ReportError ()
ENTRY
100%
FREQ:10000
%bb 3:=
printf (%d (I, "ERROR CONDITION\n\t\t\t