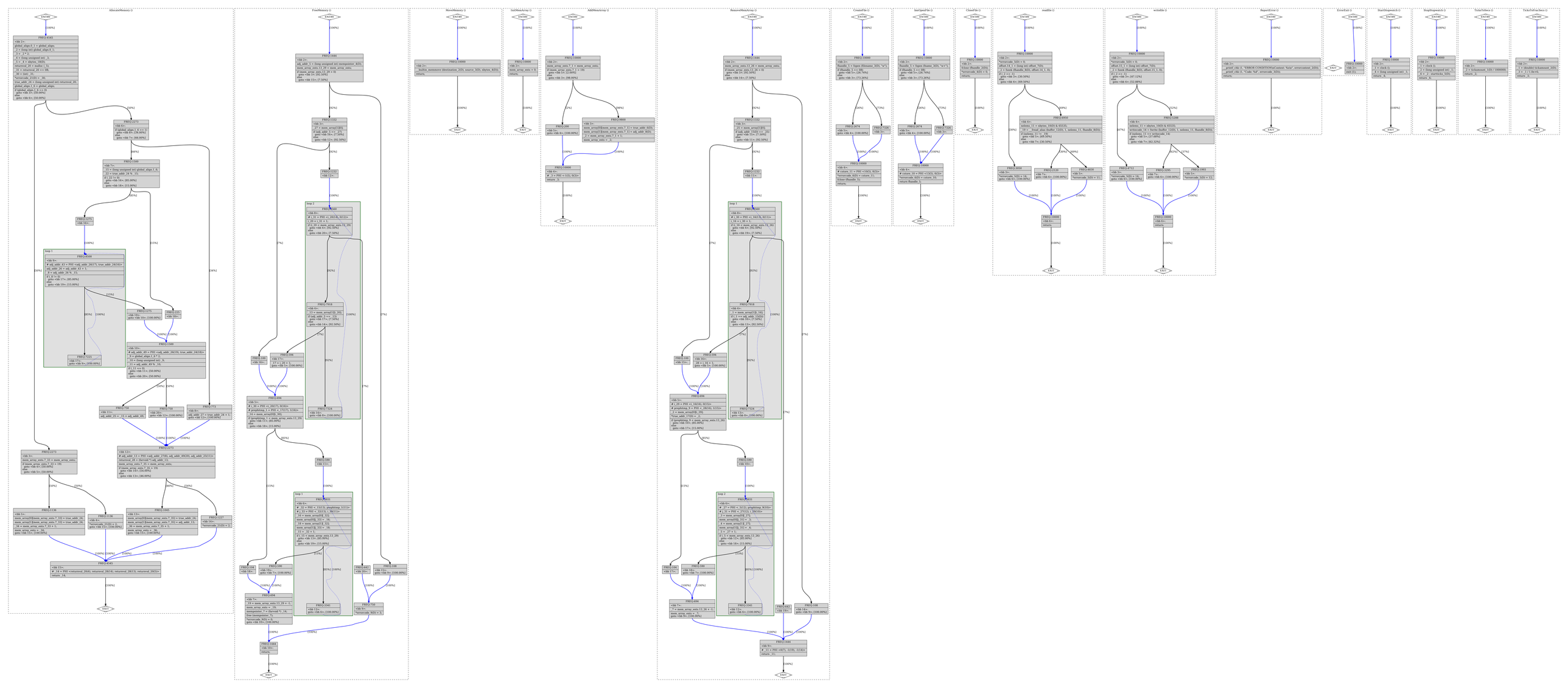
AllocateMemory ()
ENTRY
FREQ:4545
%bb 2:=
global_align:8_1 = global_align;
__2 = (long int) global_align:8_1;
__3 = __2 * 2;
__4 = (long unsigned int) __3;
__5 = __4 + sbytes:18(5);
returned_20 = malloc (__5);
__31 = returned_20 == 0B;
__30 = (int) __31;
*errorcode_21(0) = __30;
true_addr_24 = (long unsigned int) returned_20;
global_align:8_6 = global_align;
if (global_align:8_6 == 0)
goto %bb 3=. [50.00%]
else
goto %bb 4=. [50.00%]
[50%]
[50%]
FREQ:2273
%bb 3=:
mem_array_ents:7_33 = mem_array_ents;
if (mem_array_ents:7_33 == 19)
goto %bb 4=. [50.00%]
else
goto %bb 5=. [50.00%]
[50%]
[50%]
FREQ:2273
%bb 12=:
# adj_addr_13 = PHI <adj_addr_2738(, adj_addr_49(50); adj_addr_25(13)>
returned_20 = (forced) % adj_addr_13;
if (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%]
[46%]
[54%]
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%]
FREQ:1138
%bb 4=:
*errorcode_21(0) = 0;
goto %bb 15=. [100.00%]
FREQ:1043
%bb 13=:
mem_array[0][mem_array_ents:7_33] = true_addr_24;
mem_array[1][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(0) = 2;
[100%]
[100%]
[100%]
[100%]
FREQ:4545
%bb 15=:
_14 = PHI <returned_20(4), returned_28(14), returned_28(13), returned_20(5)>
return _14;
[100%]
EXIT
[50%]
[50%]
FREQ:2273
%bb 6=:
mem_array_ents:7_34 = mem_array_ents;
__35 = (sizetype) mem_array_ents:7_34;
__37 = __35 * sbytes:18(5);
__38 = (char *) returned_20;
__39 = __38 + __37;
__40 = (void *) __39;
free (__40);
goto %bb 16=. [100.00%]
[100%]
FREQ:1275
%bb 16=:
[100%]
loop 1
FREQ:8100
%bb 9=:
# adj_addr_43 = PHI <adj_addr_26137(, true_addr_24(16)>
adj_addr_26 = adj_addr_43 + 1;
__6 = adj_addr_26 % _15;
__7 = __6 == 0;
if (__7 == 0)
goto %bb 17=. [85.00%]
else
goto %bb 19=. [15.00%]
[10%]
[90%]
[15%]
[85%]
FREQ:7225
%bb 17=:
goto %bb 9=. [950.00%]
FREQ:2275
%bb 18=:
goto %bb 10=. [100.00%]
FREQ:225
%bb 18=:
[100%]
[100%]
FREQ:1500
%bb 10=:
# adj_addr_49 = PHI <adj_addr_26139(, true_addr_24(18)>
__9 = global_align:8_1 * 2;
__10 = (long unsigned int) __9;
__11 = adj_addr_49 % __10;
__12 = (int) __11;
if (__11 == 0)
goto %bb 11=. [50.00%]
else
goto %bb 20=. [50.00%]
[50%]
[50%]
FREQ:766
%bb 11=:
adj_addr_25 = __13 + adj_addr_49;
[100%]
FREQ:759
%bb 20=:
goto %bb 12=. [100.00%]
FREQ:771
%bb 8=:
adj_addr_27 = true_addr_24 + 1;
goto %bb 12=. [100.00%]
[100%]
[100%]
[100%]
FREQ:1138
%bb 15=:
_15 = PHI <returned_20(5), returned_20(4), returned_20(14)>
return _15;
[100%]
EXIT
FreeMemory ()
ENTRY
[100%]
FREQ:1444
%bb 2=:
adj_addr_5 = (long unsigned int) mempointer_4(D);
if (mem_array_ents:7_3 == mem_array_ents;
if (mem_array_ents:13_29 == 0)
goto %bb 3=. [92.00%]
else
goto %bb 15=. [7.50%]
[92%]
[8%]
FREQ:1332
%bb 3=:
__7 = mem_array[0][0];
if (adj_addr_5 == __7)
goto %bb 17=. [7.50%]
else
goto %bb 5=. [92.50%]
[8%]
[92%]
FREQ:1232
%bb 13=:
[100%]
loop 2
FREQ:9560
%bb 6=:
# _31 = PHI <i_20(13), 0(12)>
i_20 = _31 + 1;
if (i_20 < mem_array_ents:13_29)
goto %bb 8=. [92.50%]
else
goto %bb 20=. [7.50%]
[8%]
[92%]
[92%]
[8%]
FREQ:7918
%bb 8=:
__13 = mem_array[i_20];
if (adj_addr_5 == __13)
goto %bb 17=. [7.50%]
else
goto %bb 14=. [92.50%]
[8%]
[92%]
[92%]
[8%]
FREQ:1100
%bb 10=:
FREQ:1094
%bb 17=:
__17 = i_20 - 1;
goto %bb 14=. [100.00%]
FREQ:7316
%bb 14=:
goto %bb 6=. [100.00%]
[100%]
[100%]
[100%]
FREQ:1094
%bb 5=:
# i_20 = PHI <i_20(17), 0(16)>
# prephitmp_1 = PHI <_17(17), i(16)>
# _14 = mem_array[0][i_20];
if (prephitmp_1 < mem_array_ents:13_29)
goto %bb 11=. [85.00%]
else
goto %bb 18=. [15.00%]
[15%]
[85%]
FREQ:1080
%bb 19=:
[100%]
loop 1
FREQ:9031
%bb 4=:
# _27 = PHI <_15(13), prephitmp_31(11)>
# j_23 = PHI <_32(13), i_30(11)>
__1 = mem_array[0][_27];
mem_array[0][_31] = __1;
__2 = mem_array[0][j_23];
mem_array[1][_31] = __2;
j_30 = _27 + 1;
if (j_30 < mem_array_ents:13_29)
goto %bb 13=. [85.00%]
else
goto %bb 19=. [15.00%]
[15%]
[85%]
[85%]
[15%]
FREQ:1090
%bb 18=:
%bb 19=:
goto %bb 7=. [100.00%]
FREQ:1041
%bb 7=:
__19 = mem_array_ents:13_29 + -1;
mem_array_ents = __19;
mempointer_7 = (forced) % _14;
free (mempointer_7);
*errorcode_5(0) = 0;
goto %bb 18=. [100.00%]
FREQ:1041
%bb 11=:
goto %bb 6=. [100.00%]
FREQ:1082
%bb 20=:
FREQ:108
%bb 12=:
goto %bb 9=. [100.00%]
[100%]
[100%]
[100%]
FREQ:750
%bb 9=:
*errorcode_5(0) = 3;
[100%]
[100%]
[100%]
FREQ:1444
%bb 18=:
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 3=. [2.00%]
else
goto %bb 5=. [98.00%]
[2%]
[98%]
FREQ:208
%bb 5=:
goto %bb 6=. [100.00%]
FREQ:9800
%bb 3=:
mem_array[0][mem_array_ents.7_1] = true_addr_8(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%]
[100%]
FREQ:10000
%bb 6=:
_3 = PHI <1(5), 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_29 == 0)
goto %bb 3=. [92.50%]
else
goto %bb 14=. [7.50%]
[92%]
[8%]
FREQ:1332
%bb 3=:
__33 = mem_array[0][0];
if (adj_addr_5 == __33)
goto %bb 17=. [7.50%]
else
goto %bb 11=. [92.50%]
[8%]
[92%]
FREQ:1232
%bb 13=:
[100%]
loop 1
FREQ:9560
%bb 5=:
# _30 = PHI <i_16(13), 0(11)>
i_16 = _30 + 1;
if (i_16 < mem_array_ents.13_26)
goto %bb 8=. [92.50%]
else
goto %bb 19=. [7.50%]
[8%]
[92%]
[92%]
[8%]
FREQ:7918
%bb 8=:
__1 = mem_array[i_16];
if (__1 == adj_addr_5)
goto %bb 17=. [7.50%]
else
goto %bb 14=. [92.50%]
[8%]
[92%]
[92%]
[8%]
FREQ:1100
%bb 10=:
FREQ:1094
%bb 16=:
__36 = i_16 + 1;
goto %bb 14=. [100.00%]
FREQ:7324
%bb 14=:
goto %bb 5=. [950.00%]
[100%]
[100%]
[100%]
FREQ:1094
%bb 4=:
# i_29 = PHI <i_16(16), 0(15)>
# prephitmp_5 = PHI <_26(16), 1(15)>
__3 = mem_array[0][i_29];
*true_addr_17(D) = __3;
if (prephitmp_5 < mem_array_ents.13_26)
goto %bb 10=. [85.00%]
else
goto %bb 17=. [15.00%]
[15%]
[85%]
FREQ:1080
%bb 18=:
[100%]
loop 2
FREQ:9031
%bb 6=:
# _27 = PHI <_32(12), prephitmp_9(10)>
# j_23 = PHI <_37(12), i_28(10)>
__1 = mem_array[0][_27];
mem_array[0][_31] = __1;
__2 = mem_array[1][_27];
mem_array[1][_31] = __2;
i_28 = _27 + 1;
if (i_28 < mem_array_ents.13_26)
goto %bb 12=. [85.00%]
else
goto %bb 18=. [15.00%]
[15%]
[85%]
[85%]
[15%]
FREQ:1090
%bb 17=:
%bb 18=:
goto %bb 7=. [100.00%]
FREQ:1041
%bb 7=:
__39 = mem_array_ents.13_26 + -1;
mem_array_ents = __39;
goto %bb 16=. [100.00%]
FREQ:1041
%bb 11=:
goto %bb 6=. [100.00%]
FREQ:1082
%bb 19=:
FREQ:108
%bb 9=:
goto %bb 5=. [100.00%]
[100%]
[100%]
[100%]
FREQ:1444
%bb 9=:
_31 = PHI <0(7), -1(18), -2(14)>
return _31;
[100%]
EXIT
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 3=. [73.26%]
[26%]
[73%]
FREQ:2674
%bb 3=:
goto %bb 4=. [100.00%]
FREQ:7326
%bb 3=:
[100%]
[100%]
FREQ:10000
%bb 4=:
# return_11 = PHI <1(5), 0(3)>
*errorcode_4(D) = return_11;
fclose (fhandle_5);
return;
[100%]
EXIT
ImmOpenFile ()
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 3=. [73.26%]
[26%]
[73%]
FREQ:2674
%bb 3=:
goto %bb 4=. [100.00%]
FREQ:7326
%bb 3=:
[100%]
[100%]
FREQ:10000
%bb 4=:
# return_10 = PHI <1(5), 0(3)>
*errorcode_4(D) = return_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);
_1 = fseek (fhandle_8(D), offset_14, 1, 0);
if (_1 == 0)
goto %bb 3=. [89.50%]
else
goto %bb 6=. [10.50%]
[11%]
[89%]
FREQ:8050
%bb 4=:
nitems_11 = nitems_10(D) & 65535;
_19 = __fread_alias (buffer_12(D), 1, nitems_11, fhandle_8(D));
if (nitems_11 != _19)
goto %bb 5=. [60.50%]
else
goto %bb 7=. [39.50%]
[61%]
[39%]
FREQ:2050
%bb 5=:
*errorcode_5(D) = 14;
goto %bb 8=. [100.00%]
FREQ:2130
%bb 7=:
goto %bb 6=. [100.00%]
FREQ:4630
%bb 5=:
*errorcode_5(D) = 11;
[100%]
[100%]
[100%]
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);
_1 = fseek (fhandle_8(D), offset_15, 1, 0);
if (_1 == -1)
goto %bb 3=. [87.12%]
else
goto %bb 6=. [12.88%]
[13%]
[87%]
FREQ:4572
%bb 3=:
*errorcode_5(D) = 14;
goto %bb 8=. [100.00%]
FREQ:1088
%bb 6=:
nitems_11 = nitems_10(D) & 65535;
writecode_14 = fwrite (buffer_12(D), 1, nitems_11, fhandle_8(D));
if (nitems_11 == writecode_14)
goto %bb 5=. [57.68%]
else
goto %bb 7=. [42.32%]
[58%]
[42%]
FREQ:2295
%bb 5=:
goto %bb 4=. [100.00%]
FREQ:1991
%bb 7=:
*errorcode_5(D) = 12;
[100%]
[100%]
[100%]
FREQ:10000
%bb 4=:
return;
[100%]
EXIT
ReportError ()
ENTRY
[100%]
FREQ:10000
%bb 2=:
__printf_chk (1, "ERROR:CODE3375=%s\n%s\n", errorcontext_7(D), errorcontext_5(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 ();
_2 = (long unsigned int) _1;
_3 = _2 startclock_5(D);
return _4;
[100%]
EXIT
StopStopwatch ()
ENTRY
[100%]
FREQ:10000
%bb 2=:
_1 = clock ();
_2 = (long unsigned int) _1;
_3 = _2 startclock_5(D);
return _4;
[100%]
EXIT
TicksToSecs ()
ENTRY
[100%]
FREQ:10000
%bb 2=:
_1 = (double) tickamount_1(D);
_2 = _1 / 1.0e+6;
return _2;
[100%]
EXIT
TicksToFracSecs ()
ENTRY
[100%]
FREQ:10000
%bb 2=:
_1 = (double) tickamount_1(D);
_2 = _1 / 1.0e+6;
return _3;
[100%]
EXIT