output_string ()

ENTRY

100%

FREQ:10000
<bb 2>:
__printf_chk (1, "%s", buffer_3(D));
write_to_file.30_1 = write_to_file;
if (write_to_file.30_1 != 0)
goto <bb 3>; [36.64%]
else
goto <bb 4>; [63.36%]

36%

FREQ:3664
<bb 3>:
global_ofile.31_7 = global_ofile;
__builtin_fputs (buffer_3(D), global_ofile.31_7);

63%

100%

FREQ:10000
<bb 4>:
return;

100%

EXIT

main ()

ENTRY

100%

FREQ:909
<bb 2>:
global_min_ticks = 60;
global_min_seconds = 5;
global_allstats = 0;
global_custrun = 0;
global_algo = 8;
write_to_file = 0;
mem_array_entx = 0;

EXIT

100%

loop 1

FREQ:9091
<bb 3>:
# i_325 = PHI <i_148(3), 0(2)>
tests_to_do[i_325] = 1;
i_148 = i_325 + 1;
if (i_148 != 0)
goto <bb 3>; [90.00%]
else
goto <bb 4>; [10.00%]

190%

10%

FREQ:909
<bb 4>:
global_numsortstruct.request_secs = 5;
global_strsortstruct.request_secs = 5;
global_bitopstruct.request_secs = 5;
global_emfloatstruct.request_secs = 5;
global_fourierstruct.request_secs = 5;
global_assignstruct.request_secs = 5;
global_ideastruct.request_secs = 5;
global_huffstruct.request_secs = 5;
global_matstruct.request_secs = 5;
global_lustruct.request_secs = 5;
global_numsortstruct.adjust = 0;
global_numsortstruct.arraysize = 8111;
global_strsortstruct.adjust = 0;
global_strsortstruct.arraysize = 8111;
global_bitopstruct.adjust = 0;
global_bitopstruct.bitfieldarraysize = 16384;
global_emfloatstruct.adjust = 0;
global_emfloatstruct.arraysize = 3000;
global_fourierstruct.adjust = 0;
global_assignstruct.adjust = 0;
global_ideastruct.adjust = 0;
global_ideastruct.arraysize = 4000;
global_huffstruct.adjust = 0;
global_huffstruct.arraysize = 5000;
global_matstruct.adjust = 0;
global_lustruct.adjust = 0;
if (arge_36(D) == 2)
goto <bb 5>; [20.24%]
else
goto <bb 6>; [79.76%]

20%

FREQ:184
<bb 5>:
_1 = MEM[(char * *)argv_91(D) + 8B];
149 = strtol (_1, 0B, 10);
150 = (int) 149;
testnum = 150;

79%

100%

FREQ:909
<bb 6>:
output_string ("\nBYTEmark* Native Mode Benchmark ver. 2 (10/95)\n");
output_string ("Index-split by Andrew D. Balsa (11/97)\n");
output_string ("Linux/CLinux* port by Uwe F. Mayer (12/96,11/97)\n");
global_allstats.0_2 = global_allstats;
if (global_allstats.0_2 != 0)
goto <bb 7>; [33.00%]
else
goto <bb 8>; [67.00%]

33%

67%

FREQ:300
<bb 7>:
output_string ("\n");
output_string ("==========================ALL STATISTICS==========================\n");
time (&time_and_date);
loctime_100 = localtime (&time_and_date);
_3 = asctime (loctime_100);
__builtin___sprintf_chk (&buffer, 1, 1024, "***Date and time of benchmark run: %s", _3);
output_string (&buffer);
__builtin___sprintf_chk (&buffer, 1, 1024, "***Sizeof: char:%u short:%u int:%u long:%u ull:%u ul:%u u16:%u u32:%u int32:%u\n", 1, 2, 4, 8, 1, 2, 4, 4);
output_string (&buffer);
__builtin_memcpy (&buffer, "***System used for compilation:\n", 32);
output_string (&buffer);
__builtin_memcpy (&buffer, "***Linux elvenado 4.15.0-112-generic #113-Ubuntu SMP Thu Jul 9 23:41:39 UTC 2020 \n", 82);
output_string (&buffer);
__builtin_memcpy (&buffer, "***C compiler: gcc version 7.5.0 (Ubuntu 7.5.0-3ubuntu1~18.04) \n", 64);
output_string (&buffer);
__builtin_memcpy (&buffer, "***libc: libc-2.27.so\n", 22);
output_string (&buffer);
__builtin_memcpy (&buffer, "***Date of compilation: Mon 24 Aug 10:41:27 BST 2020\n", 53);
output_string (&buffer);
output_string ("==\n");

100%

FREQ:909
<bb 8>:
output_string ("\nTEST : Iterations/sec. : Old Index : New Index\n");
output_string ("   : Pentium 90* : AMD K6/233*\n");
output_string ("--\n");
i_113 = testnum;
testnum.16_321 = i_113;

100%

loop 2

FREQ:5151
<bb 9>:
# i_320 = PHI <i_144(571), i_113(8)>
# ix_nonmindex_319 = PHI <ix_nonmindex_44(57), 1.0e+00(0)>
# ix_intindex_317 = PHI <ix_intindex_47(57), 1.0e+00(0)>
# ix_fpindex_315 = PHI <ix_fpindex_50(57), 1.0e+00(0)>
# intindex_313 = PHI <intindex_53(57), 1.0e+00(0)>
# fpindex_322 = PHI <fpindex_56(57), 1.0e+00(0)>
_4 = tests_to_do[i_320];
if (_4 != 0)
goto <bb 10>; [33.00%]
else
goto <bb 57>; [67.00%]

33%

67%

FREQ:1700
<bb 10>:
_5 = fiestnames[i_320];
__builtin___sprintf_chk (&buffer, 1, 1024, "%s :", _5);
__printf_chk (1, "%s", &buffer);
write_to_file.30_190 = write_to_file;
if (write_to_file.30_190 != 0)
goto <bb 11>; [36.64%]
else
goto <bb 12>; [63.36%]

36%

63%

FREQ:623
<bb 11>:
global_ofile.31_191 = global_ofile;
__builtin_fputs (&buffer, global_ofile.31_191);

100%

FREQ:1700
<bb 12>:
_153 = func:pointer[i_320];
153 ();
_6 = lx_bindex[i_320];
_7 = lmmxn_187(D) / _6;
_8 = bindex[i_320];
_9 = lmmxn_187(D) / _8;
__builtin___sprintf_chk (&buffer, 1, 1024, " %15.5g : %9.2f : %9.2f\n", lmmxn_187(D), _9, _7);
__printf_chk (1, "%s", &buffer);
write_to_file.30_189 = write_to_file;
if (write_to_file.30_189 != 0)
goto <bb 13>; [36.64%]
else
goto <bb 14>; [63.36%]

36%

63%

FREQ:623
<bb 13>:
global_ofile.31_192 = global_ofile;
__builtin_fputs (&buffer, global_ofile.31_192);

100%

FREQ:1700
<bb 14>:
_10 = i_320 == 4;
_11 = i_320 == 8;
_12 = _10 | _11;
_61 = i_320 == 9;
_134 = _12 | _61;
if (_134 != 0)
goto <bb 15>; [67.00%]
else
goto <bb 16>; [33.00%]

33%

FREQ:561
<bb 16>:
_17 = bindex[i_320];
_18 = lmmxn_187(D) / _17;
intindex_136 = _18 * intindex_313;
_19 = i_320 == 0;
_20 = i_320 == 3;
_21 = _19 | _20;
if (_21 != 0)
goto <bb 18>; [50.00%]
else
goto <bb 17>; [50.00%]

67%

50%

FREQ:280
<bb 17>:
_17_22 = (unsigned int) i_320;
_23 = _17_22 + 4294967290;
if (_23 <= 1)
goto <bb 18>; [36.00%]
else
goto <bb 19>; [64.00%]

36%

64%

FREQ:1139
<bb 15>:
_13 = bindex[i_320];
_14 = lmmxn_187(D) / _13;
fpindex_139 = _14 * fpindex_322;
_15 = lx_bindex[i_320];
_16 = lmmxn_187(D) / _15;
lx_fpindex_140 = _16 * lx_fpindex_315;
goto <bb 20>; [100.00%]

FREQ:381
<bb 18>:
_24 = lx_bindex[i_320];
_25 = lmmxn_187(D) / _24;
lx_intindex_138 = _25 * lx_intindex_317;
goto <bb 20>; [100.00%]

FREQ:179
<bb 19>:
_26 = lx_bindex[i_320];
_27 = lmmxn_187(D) / _26;
lx_mmindex_137 = _27 * lx_mmindex_319;

100%

100%

100%

FREQ:1700
<bb 20>:
# lx_mmindex_43 = PHI <lx_mmindex_319(15), lx_mmindex_319(18), lx_mmindex_137(19)>
# lx_intindex_46 = PHI <lx_intindex_317(15), lx_intindex_138(18), lx_intindex_317(19)>
# lx_fpindex_49 = PHI <lx_fpindex_140(15), lx_fpindex_315(18), lx_fpindex_315(19)>
# intindex_52 = PHI <intindex_313(15), intindex_136(18), intindex_136(19)>
# fpindex_55 = PHI <fpindex_139(15), fpindex_322(18), fpindex_322(19)>
global_allstats.10_28 = global_allstats;
if (global_allstats.10_28 != 0)
goto <bb 21>; [33.00%]
else
goto <bb 57>; [67.00%]

33%

67%

FREQ:561
<bb 21>:
__builtin___sprintf_chk (&buffer, 1, 1024, " Absolute standard deviation: %g\n", bstdev_188(D));
output_string (&buffer);
if (lmmxn_187(D) > 1.0000000000000001999189980260288361964776078853415942018e-100)
goto <bb 22>; [33.00%]
else
goto <bb 23>; [67.00%]

33%

67%

FREQ:185
<bb 22>:
_29 = bstdev_188(D) * 1.0e+2;
_30 = _29 / lmmxn_187(D);
__builtin___sprintf_chk (&buffer, 1, 1024, " Relative standard deviation: %g %%\n", _30);
output_string (&buffer);

100%

FREQ:561
<bb 23>:
__builtin___sprintf_chk (&buffer, 1, 1024, " Number of runs: %lu\n", 5);
output_string (&buffer);
switch (i_320) <default: <L139> [9.09%], case 0: <L129> [9.09%], case 1: <L30> [9.09%], case 2: <L31> [9.09%], case 3: <L32> [9.09%], case 4: <L133> [9.09%], case 5: <L34> [9.09%], case 6: <L35> [9.09%], case 7: <L36> [9.09%], case 8: <L37> [9.09%], case 9: <L38> [9.09%]>

9%

FREQ:51
<bb 24>:
<L129> [0.51%]:
_193 = global_numsortstruct.numarrays;
_194 = (int) _193;
__builtin___sprintf_chk (&buffer, 1, 80, " Number of arrays: %d\n", _194);
__printf_chk (1, "%s", &buffer);
write_to_file.30_212 = write_to_file;
if (write_to_file.30_212 != 0)
goto <bb 25>; [36.64%]
else
goto <bb 26>; [63.36%]

FREQ:51
<bb 28>:
<L130> [0.51%]:
_196 = global_strsortstruct.numarrays;
_197 = (int) _196;
__builtin___sprintf_chk (&buffer, 1, 80, " Number of arrays: %d\n", _197);
__printf_chk (1, "%s", &buffer);
write_to_file.30_216 = write_to_file;
if (write_to_file.30_216 != 0)
goto <bb 29>; [36.64%]
else
goto <bb 30>; [63.36%]

FREQ:51
<bb 32>:
<L31> [0.51%]:
_199 = global_bitopstruct.bitoparraysize;
__builtin___sprintf_chk (&buffer, 1, 80, " Operations array size: %d\n", _199);
__printf_chk (1, "%s", &buffer);
write_to_file.30_220 = write_to_file;
if (write_to_file.30_220 != 0)
goto <bb 33>; [36.64%]
else
goto <bb 34>; [63.36%]

FREQ:51
<bb 36>:
<L32> [0.51%]:
_201 = global_emfloatstruct.loops;
__builtin___sprintf_chk (&buffer, 1, 80, " Number of loops: %lu\n", _201);
__printf_chk (1, "%s", &buffer);
write_to_file.30_224 = write_to_file;
if (write_to_file.30_224 != 0)
goto <bb 37>; [36.64%]
else
goto <bb 38>; [63.36%]

FREQ:51
<bb 42>:
<L34> [0.51%]:
_204 = global_assignstruct.numarrays;
__builtin___sprintf_chk (&buffer, 1, 80, " Number of arrays: %lu\n", _204);
__printf_chk (1, "%s", &buffer);
write_to_file.30_229 = write_to_file;
if (write_to_file.30_229 != 0)
goto <bb 43>; [36.64%]
else
goto <bb 56> (<L39>); [63.36%]

FREQ:51
<bb 44>:
<L35> [0.51%]:
_205 = global_ideastruct.arraysize;
__builtin___sprintf_chk (&buffer, 1, 80, " Array size: %lu\n", _205);
__printf_chk (1, "%s", &buffer);
write_to_file.30_232 = write_to_file;
if (write_to_file.30_232 != 0)
goto <bb 45>; [36.64%]
else
goto <bb 46>; [63.36%]

FREQ:51
<bb 48>:
<L36> [0.51%]:
_207 = global_huffstruct.arraysize;
__builtin___sprintf_chk (&buffer, 1, 80, " Array size: %lu\n", _207);
__printf_chk (1, "%s", &buffer);
write_to_file.30_236 = write_to_file;
if (write_to_file.30_236 != 0)
goto <bb 49>; [36.64%]
else
goto <bb 50>; [63.36%]

FREQ:51
<bb 52>:
<L37> [0.51%]:
_209 = global_matstruct.loops;
__builtin___sprintf_chk (&buffer, 1, 80, " Number of loops: %lu\n", _209);
__printf_chk (1, "%s", &buffer);
write_to_file.30_239 = write_to_file;
if (write_to_file.30_239 != 0)
goto <bb 53>; [36.64%]
else
goto <bb 56> (<L39>); [63.36%]

FREQ:51
<bb 54>:
<L38> [0.51%]:
_210 = global_lustruct.numarrays;
__builtin___sprintf_chk (&buffer, 1, 80, " Number of arrays: %lu\n", _210);
__printf_chk (1, "%s", &buffer);
write_to_file.30_241 = write_to_file;
if (write_to_file.30_241 != 0)
goto <bb 55>; [36.64%]
else
goto <bb 56> (<L39>); [63.36%]

9%

FREQ:51
<bb 26>:
_195 = global_numsortstruct.arraysize;
__builtin___sprintf_chk (&buffer, 1, 80, " Array size: %lu\n", _195);
__printf_chk (1, "%s", &buffer);
write_to_file.30_211 = write_to_file;
if (write_to_file.30_211 != 0)
goto <bb 27>; [36.64%]
else
goto <bb 56> (<L39>); [63.36%]

FREQ:51
<bb 30>:
_198 = global_strsortstruct.arraysize;
__builtin___sprintf_chk (&buffer, 1, 80, " Array size: %lu\n", _198);
__printf_chk (1, "%s", &buffer);
write_to_file.30_215 = write_to_file;
if (write_to_file.30_215 != 0)
goto <bb 31>; [36.64%]
else
goto <bb 56> (<L39>); [63.36%]

FREQ:51
<bb 34>:
_200 = global_bitopstruct.bitfieldarraysize;
__builtin___sprintf_chk (&buffer, 1, 80, " Bitfield array size: %ld\n", _200);
__printf_chk (1, "%s", &buffer);
write_to_file.30_219 = write_to_file;
if (write_to_file.30_219 != 0)
goto <bb 35>; [36.64%]
else
goto <bb 56> (<L39>); [63.36%]

FREQ:51
<bb 38>:
_202 = global_emfloatstruct.arraysize;
__builtin___sprintf_chk (&buffer, 1, 80, " Array size: %lu\n", _202);
__printf_chk (1, "%s", &buffer);
write_to_file.30_223 = write_to_file;
if (write_to_file.30_223 != 0)
goto <bb 39>; [36.64%]
else
goto <bb 56> (<L39>); [63.36%]

FREQ:51
<bb 40>:
<L33> [0.51%]:
_203 = global_fourierstruct.arraysize;
__builtin___sprintf_chk (&buffer, 1, 80, " Number of coefficients: %lu\n", _203);
__printf_chk (1, "%s", &buffer);
write_to_file.30_227 = write_to_file;
if (write_to_file.30_227 != 0)
goto <bb 41>; [36.64%]
else
goto <bb 56> (<L39>); [63.36%]

FREQ:51
<bb 46>:
_206 = global_ideastruct.loops;
__builtin___sprintf_chk (&buffer, 1, 80, " Number of loops: %lu\n", _206);
__printf_chk (1, "%s", &buffer);
write_to_file.30_231 = write_to_file;
if (write_to_file.30_231 != 0)
goto <bb 47>; [36.64%]
else
goto <bb 56> (<L39>); [63.36%]

FREQ:51
<bb 50>:
_208 = global_huffstruct.loops;
__builtin___sprintf_chk (&buffer, 1, 80, " Number of loops: %lu\n", _208);
__printf_chk (1, "%s", &buffer);
write_to_file.30_235 = write_to_file;
if (write_to_file.30_235 != 0)
goto <bb 51>; [36.64%]
else
goto <bb 56> (<L39>); [63.36%]

FREQ:51
<bb 56>:
<L39> [5.41%]:
buffer = {v} {CLOBBER};
_31 = fiestnames[i_320];
__builtin___sprintf_chk (&buffer, 1, 1024, "Done with %s\n\n", _31);
output_string (&buffer);

100%

FREQ:5151
<bb 57>:
# ix_mmindex_44 = PHI <lx_mmindex_319(9), lx_mmindex_43(20), lx_mmindex_43(56)>
# ix_intindex_47 = PHI <lx_intindex_317(9), lx_intindex_46(20), lx_intindex_46(56)>
# lx_fpindex_50 = PHI <lx_fpindex_315(9), lx_fpindex_49(20), lx_fpindex_49(56)>
# intindex_53 = PHI <intindex_313(9), intindex_52(20), intindex_52(56)>
# fpindex_56 = PHI <fpindex_322(9), fpindex_55(20), fpindex_55(56)>
i_146 = i_320 + 1;
testnum.16_32 = testnum;
if (testnum.16_32 >= i_146)
goto <bb 9>; [85.00%]
else
goto <bb 58>; [15.00%]

15%

85%

FREQ:909
<bb 58>:
# lx_mmindex_318 = PHI <lx_mmindex_44(57)>
# lx_intindex_316 = PHI <lx_intindex_47(57)>
# lx_fpindex_314 = PHI <lx_fpindex_50(57)>
# intindex_312 = PHI <intindex_53(57)>
# fpindex_311 = PHI <fpindex_56(57)>
global_custrun.17_33 = global_custrun;
if (global_custrun.17_33 == 0)
goto <bb 59>; [33.00%]
else
goto <bb 60>; [67.00%]

33%

67%

FREQ:300
<bb 59>:
output_string ("==========================ORIGINAL BYTEMARK RESULTS==========================\n");
_34 = pow (intindex_53, 1.4285700000000001752176849472037674369395382741878e-1);
__builtin___sprintf_chk (&buffer, 1, 1024, "INTEGER INDEX   : %.3fn", _34);
output_string (&buffer);
_35 = pow (fpindex_56, 3.3333300000000001517008740847813896348560311279296875e-1);
__builtin___sprintf_chk (&buffer, 1, 1024, "FLOATING-POINT INDEX: %.3fn", _35);
output_string (&buffer);
output_string ("Baseline (MSDOS*)   : Pentium* 90, 256 KB L2-cache, Watcom* compiler 10.0\n");
output_string ("==========================LINUX DATA BELOW==========================\n");
global_ofile.18_36 = global_ofile;
write_to_file.19_37 = write_to_file;
hardware (write_to_file.19_37, global_ofile.18_36);
__builtin_memcpy (&buffer, "C compiler   : gcc version 7.5.0 (Ubuntu 7.5.0-3ubuntu1~18.04) \n", 72);
output_string (&buffer);
__builtin_memcpy (&buffer, "libc   : libc-2.27.so\n", 36);
output_string (&buffer);
_38 = pow (lx_mmindex_44, 3.3333333329999997873827055627771187573671340942382812 5e-1);
__builtin___sprintf_chk (&buffer, 1, 1024, "MEMORY INDEX   : %.3fn", _38);
output_string (&buffer);
_39 = pow (lx_intindex_47, 2.5e-1);
__builtin___sprintf_chk (&buffer, 1, 1024, "INTEGER INDEX   : %.3fn", _39);
output_string (&buffer);
_40 = pow (lx_fpindex_50, 3.3333333329999997873827055627771187573671340942382812 5e-1);
__builtin___sprintf_chk (&buffer, 1, 1024, "FLOATING-POINT INDEX: %.3fn", _40);
output_string (&buffer);
output_string ("Baseline (LINUX)   : AMD K6/233*, 512 KB L2-cache, gcc 2.7.2.3, libc-5.4.38\n");
output_string ("* Trademarks are property of their respective holder.\n");

100%

FREQ:909
<bb 60>:
exit (0);