main ()

ENTRY

100%

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

EXIT

100%

loop 1

FREQ:5091
<bb 3>:
# i_325 = PHI <i_148(4), 0(2)>
# ivtmp_57 = PHI <ivtmp_17(4), 10(2)>
tests_to_do(_325) = i_;
i_148 = i_325 + 1;
ivtmp_17 = ivtmp_57 - 1;
if (ivtmp_17 != 0)
goto <bb 4>; [90.00%]
else
goto <bb 5>; [10.00%]

10%

90%

100%

FREQ:8182
<bb 4>:
goto <bb 3>; [100.00%]

FREQ:909
<bb 5>:
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_metstruct.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_metstruct.adjust = 0;
global_lustruct.adjust = 0;
if (argc_90(D) == 2)
goto <bb 6>; [20.24%]
else
goto <bb 7>; [79.76%]

20%

79%

FREQ:184
<bb 6>:
_1 = MEM[(char * *)argv_91(D) + 8B];
_149 = strtol (_1, 0B, 10);
_150 = (int) _149;
testnum = _150;

100%

FREQ:909
<bb 7>:
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/Unix* port by Uwe F. Mayer (12/96,11/97)\n");
global_allstats.0_2 = global_allstats;
if (global_allstats.0_2 != 0)
goto <bb 8>; [33.00%]
else
goto <bb 9>; [67.00%]

33%

67%

FREQ:300
<bb 8>:
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 u8:%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\n");

100%

FREQ:909
<bb 9>:
output_string ("\nTEST : Iterations/sec. : Old Index : New Index\n");
output_string ("-------------------------------:-------------:-------------:-------------\n");
i_113 = testnum;

100%

loop 2

FREQ:5151
<bb 10>:
# i_320 = PHI <i_146(62), i_113(9)>
# ix_memindex_319 = PHI <ix_memindex_44(62), 1.0e+00(9)>
# ix_intindex_317 = PHI <ix_intindex_47(62), 1.0e+00(9)>
# ix_fpindex_315 = PHI <ix_fpindex_50(62), 1.0e+00(9)>
# intindex_313 = PHI <intindex_53(62), 1.0e+00(9)>
# fpindex_322 = PHI <fpindex_56(62), 1.0e+00(9)>
# prephitmp_19 = PHI <prephitmp_23(62), i_113(9)>
_4 = tests_to_do[i_320];
if (_4 != 0)
goto <bb 11>; [33.00%]
else
goto <bb 61>; [67.00%]

33%

67%

FREQ:1700
<bb 11>:
_5 = fieldnames[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 12>; [36.64%]
else
goto <bb 13>; [63.36%]

36%

63%

FREQ:623
<bb 12>:
global_ofile.31_191 = global_ofile;
__builtin_fputs (&buffer, global_ofile.31_191);

100%

FREQ:1700
<bb 13>:
_153 = funcpointer[i_320];
153 ();
_6 = lx_bindex[i_320];
_7 = bmean_187(D) / _6;
_8 = bindex[i_320];
_9 = bmean_187(D) / _8;
__builtin___sprintf_chk (&buffer, 1, 1024, " %15.5g %9.2f %9.2f%s", bmean_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 14>; [36.64%]
else
goto <bb 15>; [63.36%]

36%

63%

FREQ:623
<bb 14>:
global_ofile.31_192 = global_ofile;
__builtin_fputs (&buffer, global_ofile.31_192);

100%

FREQ:1700
<bb 15>:
_10 = i_320 == 4;
_54 = (unsigned int) i_320;
_51 = _54 + 4294967288;
_48 = _51 <= 1;
_134 = _10 | _48;
prettmp_12 = bindex[i_320];
prettmp_21 = lx_bindex[i_320];
if (_134 != 0)
goto <bb 16>; [67.00%]
else
goto <bb 17>; [33.00%]

33%

67%

FREQ:561
<bb 17>:
_18 = bmean_187(D) / prettmp_12;
intindex_136 = _18 * intindex_313;
if (_54 > 7)
goto <bb 18>; [50.00%]
else
goto <bb 18>; [50.00%]

50%

FREQ:561
<bb 18>:
_312 = 201 >> i_320;
_314 = _312 & 1;
_316 = _314 == 0;

50%

100%

FREQ:561
<bb 19>:
# _318 = PHI <_316(18), 1(17)>
if (_318 != 0)
goto <bb 20>; [50.00%]
else
goto <bb 21>; [50.00%]

50%

50%

FREQ:280
<bb 20>:
_27 = bmean_187(D) / prettmp_21;
lx_memindex_137 = _27 * lx_memindex_319;
goto <bb 22>; [100.00%]

FREQ:381
<bb 21>:
_25 = bmean_187(D) / prettmp_21;
lx_intindex_138 = _25 * lx_intindex_317;

FREQ:1139
<bb 16>:
_14 = bmean_187(D) / prettmp_12;
fpindex_139 = _14 * fpindex_322;
_16 = bmean_187(D) / prettmp_21;
lx_fpindex_140 = _16 * lx_fpindex_315;
goto <bb 22>; [100.00%]

100%

100%

100%

67%

FREQ:1700
<bb 22>:
# lx_memindex_43 = PHI <lx_memindex_319(16), lx_memindex_319(21), lx_memindex_137(20)>
# lx_intindex_46 = PHI <lx_intindex_317(16), lx_intindex_138(21), lx_intindex_317(20)>
# lx_fpindex_49 = PHI <lx_fpindex_140(16), lx_fpindex_315(21), lx_fpindex_315(20)>
# intindex_52 = PHI <intindex_313(16), intindex_136(21), intindex_136(20)>
# fpindex_55 = PHI <fpindex_139(16), fpindex_322(21), fpindex_322(20)>
global_allstats.10_28 = global_allstats;
if (global_allstats.10_28 != 0)
goto <bb 24>; [33.00%]
else
goto <bb 23>; [67.00%]

33%

67%

FREQ:561
<bb 24>:
__builtin___sprintf_chk (&buffer, 1, 1024, " Absolute standard deviation: %g\n", lstdev_188(D));
output_string (&buffer);
if (bmean_187(D) > 1.0000000000000000019991899026028836196477607788534159420188e-100)
goto <bb 25>; [33.00%]
else
goto <bb 26>; [67.00%]

33%

67%

FREQ:185
<bb 25>:
_29 = lstdev_188(D) * 1.0e+2;
_30 = _29 / bmean_187(D);
__builtin___sprintf_chk (&buffer, 1, 1024, " Relative standard deviation: %g %%\n", _30);
output_string (&buffer);

100%

FREQ:561
<bb 26>:
__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: <L130> [9.09%], case 2: <L131> [9.09%], case 3: <L132> [9.09%], case 4: <L133> [9.09%], case 5: <L134> [9.09%], case 6: <L135> [9.09%], case 7: <L136> [9.09%], case 8: <L137> [9.09%], case 9: <L138> [9.09%]>

9%

FREQ:51
<bb 40>:
<L132> [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 41>; [36.64%]
else
goto <bb 42>; [63.36%]

36%

63%

FREQ:19
<bb 41>:
global_ofile.31_225 = global_ofile;
__builtin_fputs (&buffer, global_ofile.31_225);

100%

FREQ:51
<bb 42>:
_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 43>; [36.64%]
else
goto <bb 30>; [63.36%]

FREQ:51
<bb 48>:
<L135> [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 49>; [36.64%]
else
goto <bb 50>; [63.36%]

36%

63%

FREQ:19
<bb 49>:
global_ofile.31_233 = global_ofile;
__builtin_fputs (&buffer, global_ofile.31_233);

100%

FREQ:51
<bb 50>:
_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 51>; [36.64%]
else
goto <bb 30>; [63.36%]

FREQ:51
<bb 46>:
<L134> [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 47>; [36.64%]
else
goto <bb 30>; [63.36%]

FREQ:51
<bb 56>:
<L137> [0.51%]:
_209 = global_lustruct.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 57>; [36.64%]
else
goto <bb 30>; [63.36%]

FREQ:51
<bb 29>:
_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 31>; [36.64%]
else
goto <bb 30>; [63.36%]

FREQ:51
<bb 34>:
_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 35>; [36.64%]
else
goto <bb 30>; [63.36%]

FREQ:51
<bb 38>:
_200 = global_bitopstruct.bitfieldarraysize;
__builtin___sprintf_chk (&buffer, 1, 80, " Bitfield array size: %lu\n", _200);
__printf_chk (1, "%s", &buffer);
write_to_file.30_219 = write_to_file;
if (write_to_file.30_219 != 0)
goto <bb 39>; [36.64%]
else
goto <bb 30>; [63.36%]

FREQ:51
<bb 54>:
_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 55>; [36.64%]
else
goto <bb 30>; [63.36%]

FREQ:51
<bb 58>:
<L138> [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 59>; [36.64%]
else
goto <bb 30>; [63.36%]

FREQ:51
<bb 44>:
<L133> [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 45>; [36.64%]
else
goto <bb 30>; [63.36%]

FREQ:19
<bb 43>:
global_ofile.31_226 = global_ofile;
goto <bb 60> (<L139>); [100.00%]

FREQ:19
<bb 51>:
global_ofile.31_234 = global_ofile;
__builtin_fputs (&buffer, global_ofile.31_234);
goto <bb 60> (<L139>); [100.00%]

FREQ:19
<bb 47>:
global_ofile.31_230 = global_ofile;
__builtin_fputs (&buffer, global_ofile.31_230);
goto <bb 60> (<L139>); [100.00%]

FREQ:19
<bb 57>:
global_ofile.31_240 = global_ofile;
__builtin_fputs (&buffer, global_ofile.31_240);
goto <bb 60> (<L139>); [100.00%]

FREQ:320
<bb 30>:
goto <bb 60> (<L139>); [100.00%]

FREQ:19
<bb 31>:
global_ofile.31_214 = global_ofile;
__builtin_fputs (&buffer, global_ofile.31_214);
goto <bb 60> (<L139>); [100.00%]

FREQ:19
<bb 35>:
global_ofile.31_218 = global_ofile;
__builtin_fputs (&buffer, global_ofile.31_218);
goto <bb 60> (<L139>); [100.00%]

FREQ:19
<bb 39>:
global_ofile.31_222 = global_ofile;
__builtin_fputs (&buffer, global_ofile.31_222);
goto <bb 60> (<L139>); [100.00%]

FREQ:19
<bb 55>:
global_ofile.31_238 = global_ofile;
__builtin_fputs (&buffer, global_ofile.31_238);
goto <bb 60> (<L139>); [100.00%]

FREQ:19
<bb 59>:
global_ofile.31_242 = global_ofile;
__builtin_fputs (&buffer, global_ofile.31_242);

FREQ:19
<bb 45>:
global_ofile.31_228 = global_ofile;
__builtin_fputs (&buffer, global_ofile.31_228);
goto <bb 60> (<L139>); [100.00%]

100%

FREQ:561
<bb 60>:
<L139> [5.61%]:
buffer = {v} {CLOBBER};
_31 = fieldnames[i_320];
__builtin___sprintf_chk (&buffer, 1, 1024, "Done with %s\n\n", _31);
output_string (&buffer);
prettmp_22 = testnum;

FREQ:1139
<bb 23>:
prettmp_20 = testnum;
goto <bb 61>; [100.00%]

100%

100%

FREQ:5151
<bb 61>:
# lx_memindex_44 = PHI <lx_memindex_319(10), lx_memindex_43(23), lx_memindex_43(60)>
# lx_intindex_47 = PHI <lx_intindex_317(10), lx_intindex_46(23), lx_intindex_46(60)>
# lx_fpindex_50 = PHI <lx_fpindex_315(10), lx_fpindex_49(23), lx_fpindex_49(60)>
# intindex_53 = PHI <intindex_313(10), intindex_52(23), intindex_52(60)>
# fpindex_56 = PHI <fpindex_322(10), fpindex_55(23), fpindex_55(60)>
# prephitmp_23 = PHI <prephitmp_19(10), prettmp_20(23), prettmp_22(60)>
i_146 = i_320 + 1;
if (prephitmp_23 >= i_146)
goto <bb 62>; [85.00%]
else
goto <bb 63>; [15.00%]

85%

15%

FREQ:4378
<bb 62>:
goto <bb 10>; [100.00%]

100%

FREQ:909
<bb 63>:
# lx_memindex_64 = PHI <lx_memindex_44(61)>
# lx_intindex_321 = PHI <lx_intindex_47(61)>
# lx_fpindex_311 = PHI <lx_fpindex_50(61)>
# intindex_61 = PHI <intindex_53(61)>
# fpindex_11 = PHI <fpindex_56(61)>
global_custrun.17_33 = global_custrun;
if (global_custrun.17_33 == 0)
goto <bb 64>; [33.00%]
else
goto <bb 65>; [67.00%]

33%

67%

FREQ:300
<bb 64>:
output_string ("================================ORIGINAL BYTEMARK RESULTS================================\n");
_34 = pow (intindex_61, 1.4285700000000001752376849472057074308395357421875e-1);
__builtin___sprintf_chk (&buffer, 1, 1024, "INTEGER INDEX   : %.3f\n", _34);
output_string (&buffer);
_35 = pow (fpindex_11, 3.3333000000000001517008740847813896834850311279296875e-1);
__builtin___sprintf_chk (&buffer, 1, 1024, "FLOATING-POINT INDEX: %.3f\n", _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_memindex_64, 3.3333333329999997873827055627771187573671340942382812e-1);
__builtin___sprintf_chk (&buffer, 1, 1024, "MEMORY INDEX   : %.3f\n", _38);
output_string (&buffer);
_39 = pow (lx_intindex_321, 2.5e-1);
__builtin___sprintf_chk (&buffer, 1, 1024, "INTEGER INDEX   : %.3f\n", _39);
output_string (&buffer);
_40 = pow (lx_fpindex_311, 3.3333333329999997873827055627771187573671340942382812e-1);
__builtin___sprintf_chk (&buffer, 1, 1024, "FLOATING-POINT INDEX: %.3f\n", _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 65>:
exit (0);