1 With Testing Framework and Flag -O1

1.1 Module 1

1.1.1 Build 1 of 2

Test file analysis
Total compilation time : 10489.30 s
Test files (excluding mocks) : 8698.26 s
Mock files : 129.23 s

Build activity analysis
Total compilation time : 10489.30 s
Callgraph functions expansion : 3997.19 s
Template instantiation : 1816.47 s
Callgraph ipa passes : 1237.42 s
Symout : 886.32 s
Parsing : 858.08 s
Garbage collection : 546.24 s
Preprocessing : 454.10 s
Integration : 312.00 s
Callgraph construction : 213.34 s
Integrated RA : 57.44 s
Expand : 51.08 s
Scheduling 2 : 7.68 s
Final : 5.36 s
Lexical analysis : 1.08 s
Tree FRE : 0.53 s
Tree VRP : 0.48 s
Df live regs : 0.46 s
Rest of compilation : 0.43 s
Tree operand scan : 0.42 s
Dominator optimization : 0.36 s
Combiner : 0.23 s
CSE : 0.18 s
Constant expression evaluation : 0.17 s
Callgraph optimization : 0.16 s
Variable tracking : 0.14 s
Tree gimplify : 0.13 s
Tree PRE : 0.12 s
Var-tracking emit : 0.11 s
Reload CSE regs : 0.10 s
Tree PTA : 0.10 s
Tree forward propagate : 0.07 s
Dominance computation : 0.07 s
Alias stmt walking : 0.06 s

Tree CFG cleanup : 0.06 s
CPROP : 0.06 s
Loop init : 0.06 s
LRA non-specific : 0.05 s
Trivially dead code : 0.05 s
Initialize rtl : 0.05 s
Tree DSE : 0.04 s
Cfg cleanup : 0.03 s
Dead store elim1 : 0.03 s
Tree SSA other : 0.03 s
Tree SSA incremental : 0.03 s
Dead code elimination : 0.03 s
Tree Early VRP : 0.03 s
Tree CCP : 0.03 s
Df reg dead/unused notes : 0.03 s
Thread pro- & epilogue : 0.02 s
Df live&initialized regs : 0.02 s
Inline parameters : 0.02 s
Alias analysis : 0.02 s
Dump files : 0.02 s
Tree reassociation : 0.01 s
Cfg construction : 0.01 s
Unaccounted optimizations : 0.01 s
CSE 2 : 0.01 s
Tree linearize phis : 0.01 s
Reload : 0.01 s
Df scan insns : 0.01 s
Tree aggressive DCE : 0.01 s
Ipa function summary : 0.01 s
Ipa various optimizations : 0.01 s
Peephole 2 : 0.01 s
PRE : 0.01 s
Straight-line strength reduction : 0.01 s
Df multiple defs : 0.01 s
Remove unused locals : 0.01 s
Register scan : 0.01 s

Approximate time for compiling same files multiple times (excluding 'first'): 244.56 seconds.

1.1.2 Build 2 of 2

Test file analysis
Total compilation time : 10039.02 s
Test files (excluding mocks) : 8298.17 s
Mock files : 124.10 s

Build activity analysis
Total compilation time : 10039.02 s
Callgraph functions expansion : 3867.65 s
Template instantiation : 1746.81 s
Callgraph ipa passes : 1158.55 s
Parsing : 843.92 s
Symout : 818.75 s
Garbage collection : 460.95 s
Preprocessing : 458.41 s
Integration : 284.30 s
Callgraph construction : 182.34 s
Integrated RA : 60.32 s
Expand : 49.93 s
Scheduling 2 : 9.56 s
Final : 5.60 s
Df live regs : 1.20 s
Lexical analysis : 0.82 s
Rest of compilation : 0.67 s
Dominator optimization : 0.35 s
Var-tracking emit : 0.29 s
Tree VRP : 0.27 s
Variable tracking : 0.23 s
Tree CFG cleanup : 0.22 s
Callgraph optimization : 0.18 s
Tree PTA : 0.18 s
Tree PRE : 0.18 s
Combiner : 0.18 s
Tree FRE : 0.17 s
CSE : 0.15 s
Constant expression evaluation : 0.14 s
Var-tracking dataflow : 0.14 s
LRA non-specific : 0.14 s
Cfg cleanup : 0.13 s
Reload CSE regs : 0.11 s
Initialize rtl : 0.09 s
Df reg dead/unused notes : 0.08 s
Tree operand scan : 0.08 s
Dump files : 0.08 s
Loop init : 0.06 s
Tree CCP : 0.06 s
Dominance computation : 0.06 s
Alias stmt walking : 0.05 s
Hard reg cprop : 0.04 s
LRA create live ranges : 0.03 s
Trivially dead code : 0.03 s

CPROP : 0.03 s
Dead store elim2 : 0.02 s
Ipa cp : 0.02 s
Loop fini : 0.02 s
Df live&initialized regs : 0.02 s
Tree strlen optimization : 0.02 s
Tree gimplify : 0.02 s
LRA rematerialization : 0.02 s
Tree SSA uncprop : 0.02 s
Tree SSA rewrite : 0.02 s
Tree SSA incremental : 0.02 s
Tree DSE : 0.02 s
Branch prediction : 0.02 s
Tree Early VRP : 0.01 s
Tree reassociation : 0.01 s
Reorder blocks : 0.01 s
LRA reload inheritance : 0.01 s
Backwards jump threading : 0.01 s
Df scan insns : 0.01 s

Approximate time for compiling same files multiple times (excluding 'first'): 231.26 seconds.

1.2 Module 2

1.2.1 Build 1 of 2

Test file analysis
Total compilation time : 9831.73 s
Test files (excluding mocks) : 5879.96 s
Mock files : 1072.06 s

Build activity analysis
Total compilation time : 9831.73 s
Callgraph functions expansion : 2522.50 s
Parsing : 1876.87 s
Template instantiation : 1592.99 s
Preprocessing : 1470.56 s
Callgraph ipa passes : 789.80 s
Symout : 688.84 s
Integration : 177.58 s
Garbage collection : 174.00 s
Callgraph construction : 44.01 s
Integrated RA : 38.74 s
Final : 29.29 s
Rest of compilation : 12.23 s

Constant expression evaluation : 6.61 s
Dominator optimization : 5.29 s
Expand : 4.40 s
Var-tracking dataflow : 4.13 s
Trivially dead code : 3.43 s
Var-tracking emit : 1.88 s
Alias stmt walking : 1.35 s
Tree DSE : 0.98 s
Variable tracking : 0.80 s
Ipa function summary : 0.46 s
Reload CSE regs : 0.11 s
Tree CFG cleanup : 0.05 s
Df reg dead/unused notes : 0.05 s
Lexical analysis : 0.02 s
Dominance computation : 0.02 s
Callgraph optimization : 0.02 s
Initialize rtl : 0.02 s
Varconst : 0.01 s

Approximate time for compiling same files multiple times (excluding 'first'): 668.62 seconds.

1.2.2 Build 2 of 2

Test file analysis
Total compilation time : 9519.46 s
Test files (excluding mocks) : 5761.63 s
Mock files : 1036.51 s

Build activity analysis
Total compilation time : 9519.46 s
Callgraph functions expansion : 2468.52 s
Parsing : 1811.78 s
Template instantiation : 1556.61 s
Preprocessing : 1337.86 s
Callgraph ipa passes : 782.03 s
Symout : 687.98 s
Garbage collection : 195.70 s
Integration : 188.31 s
Callgraph construction : 55.40 s
Integrated RA : 41.71 s
Final : 27.57 s
Rest of compilation : 9.16 s
Constant expression evaluation : 6.29 s
Var-tracking dataflow : 5.44 s
Expand : 4.69 s

Dominator optimization : 4.62 s
Trivially dead code : 3.61 s
Var-tracking emit : 2.23 s
Variable tracking : 1.74 s
Alias stmt walking : 1.50 s
Tree DSE : 0.90 s
Ipa function summary : 0.44 s
Dominance computation : 0.40 s
Tree operand scan : 0.28 s
Reload CSE regs : 0.09 s
Lexical analysis : 0.06 s
Tree CFG cleanup : 0.05 s
Tree VRP : 0.03 s
LRA virtuals elimination : 0.02 s
Initialize rtl : 0.02 s
Tree PTA : 0.02 s
Tree tail merge : 0.01 s
LRA non-specific : 0.01 s
CSE : 0.01 s
Tree SSA other : 0.01 s
Scheduling 2 : 0.01 s
Branch prediction : 0.01 s
CPROP : 0.01 s
Combiner : 0.01 s
Dump files : 0.01 s
Df reg dead/unused notes : 0.01 s
Df live&initialized regs : 0.01 s
Df live regs : 0.01 s

Approximate time for compiling same files multiple times (excluding 'first'): 639.20 seconds.

2 With Testing Framework and Flag -O0

2.1 Module 1

2.1.1 Build 1 of 2

Test file analysis
Total compilation time : 6170.85 s
Test files (excluding mocks) : 4668.88 s
Mock files : 86.65 s

Build activity analysis
Total compilation time : 6170.85 s
Template instantiation : 1775.53 s

Parsing : 986.14 s
Preprocessing : 558.64 s
Symout : 391.84 s
Garbage collection : 361.44 s
Integrated RA : 242.28 s
Callgraph construction : 235.24 s
Callgraph ipa passes : 141.78 s
Rest of compilation : 108.96 s
Final : 52.05 s
Expand : 16.80 s
LRA non-specific : 7.80 s
Callgraph functions expansion : 7.24 s
Df scan insns : 1.39 s
Lexical analysis : 0.93 s
Scheduling 2 : 0.34 s
Constant expression evaluation : 0.19 s
Dump files : 0.17 s
Df live regs : 0.16 s
Dominator optimization : 0.16 s
Thread pro- & epilogue : 0.14 s
CSE : 0.13 s
Initialize rtl : 0.13 s
Tree gimplify : 0.09 s
Tree VRP : 0.09 s
CSE 2 : 0.08 s
Variable tracking : 0.07 s
Integration : 0.07 s
Combiner : 0.07 s
Tree PTA : 0.06 s
Reload CSE regs : 0.05 s
Var-tracking dataflow : 0.05 s
Tree PRE : 0.05 s
Cfg cleanup : 0.04 s
Alias stmt walking : 0.04 s
Tree FRE : 0.04 s
Df reg dead/unused notes : 0.04 s
Shorten branches : 0.03 s
Callgraph optimization : 0.03 s
Dominance computation : 0.02 s
Df multiple defs : 0.02 s
Tree CFG cleanup : 0.02 s
Dead store elim2 : 0.02 s
Varconst : 0.02 s
Alias analysis : 0.02 s
CPROP : 0.02 s
Tree SSA other : 0.01 s

Df reaching defs : 0.01 s
Tree reassociation : 0.01 s
Tree operand scan : 0.01 s
Tree iv optimization : 0.01 s
Inline parameters : 0.01 s
Tree SSA uncprop : 0.01 s
Dead store elim1 : 0.01 s
Ipa dead code removal : 0.01 s
Jump : 0.01 s
Tree CCP : 0.01 s
PRE : 0.01 s
Out of SSA : 0.01 s

Approximate time for compiling same files multiple times (excluding 'first'): 192.67 seconds.

2.1.2 Build 2 of 2

Test file analysis
Total compilation time : 6182.23 s
Test files (excluding mocks) : 4673.42 s
Mock files : 86.99 s

Build activity analysis
Total compilation time : 6182.23 s
Template instantiation : 1779.29 s
Parsing : 985.09 s
Preprocessing : 560.86 s
Symout : 394.38 s
Garbage collection : 362.17 s
Integrated RA : 238.02 s
Callgraph construction : 234.37 s
Callgraph ipa passes : 141.21 s
Rest of compilation : 106.55 s
Final : 53.54 s
Expand : 17.89 s
LRA non-specific : 10.07 s
Callgraph functions expansion : 7.30 s
Lexical analysis : 0.92 s
Scheduling 2 : 0.32 s
CSE : 0.21 s
Constant expression evaluation : 0.21 s
Tree FRE : 0.12 s
Dominator optimization : 0.10 s
Tree CCP : 0.09 s
Dump files : 0.09 s

Tree gimplify : 0.08 s
Dominance computation : 0.07 s
Df live regs : 0.07 s
Tree PTA : 0.07 s
Variable tracking : 0.06 s
Tree PRE : 0.06 s
Callgraph optimization : 0.06 s
Cfg cleanup : 0.05 s
Tree CFG cleanup : 0.05 s
Df reg dead/unused notes : 0.04 s
Df scan insns : 0.04 s
Tree operand scan : 0.04 s
Thread pro- & epilogue : 0.04 s
Initialize rtl : 0.04 s
Combiner : 0.04 s
CPROP : 0.03 s
Tree VRP : 0.03 s
Trivially dead code : 0.03 s
Dead store elim2 : 0.03 s
Shorten branches : 0.03 s
Reload CSE regs : 0.03 s
Out of SSA : 0.03 s
Tree forward propagate : 0.02 s
CSE 2 : 0.02 s
Var-tracking dataflow : 0.02 s
Ipa pure const : 0.02 s
Machine dep reorg : 0.02 s
LRA create live ranges : 0.02 s
Tree SSA other : 0.02 s
Tree SSA incremental : 0.02 s
Tree CFG construction : 0.02 s
Tree conservative DCE : 0.01 s
Ree : 0.01 s
Varconst : 0.01 s
Integration : 0.01 s
Repair loop structures : 0.01 s

Approximate time for compiling same files multiple times (excluding 'first'): 193.43 seconds.

2.2 Module 2

2.2.1 Build 1 of 2

Test file analysis
Total compilation time : 7105.80 s

Test files (excluding mocks) : 4101.25 s
Mock files : 682.84 s

Build activity analysis
Total compilation time : 7105.80 s
Parsing : 1938.00 s
Template instantiation : 1524.56 s
Preprocessing : 1257.49 s
Symout : 299.28 s
Integrated RA : 197.18 s
Callgraph construction : 154.18 s
Garbage collection : 154.11 s
Callgraph ipa passes : 84.68 s
Rest of compilation : 68.24 s
Final : 35.61 s
LRA non-specific : 14.26 s
Expand : 13.94 s
Df scan insns : 0.73 s
Constant expression evaluation : 0.55 s
Thread pro- & epilogue : 0.45 s
Callgraph functions expansion : 0.26 s
Lexical analysis : 0.06 s
Initialize rtl : 0.02 s
Scheduling 2 : 0.02 s
Tree CFG cleanup : 0.02 s
Tree SSA incremental : 0.02 s
Dominator optimization : 0.02 s

Approximate time for compiling same files multiple times (excluding 'first'): 443.70 seconds.

2.2.2 Build 2 of 2

Test file analysis
Total compilation time : 7078.70 s
Test files (excluding mocks) : 4072.14 s
Mock files : 710.07 s

Build activity analysis
Total compilation time : 7078.70 s
Parsing : 1938.81 s
Template instantiation : 1546.81 s
Preprocessing : 1181.61 s
Symout : 306.27 s
Integrated RA : 201.92 s
Callgraph construction : 164.16 s

Garbage collection : 158.59 s
Callgraph ipa passes : 86.27 s
Rest of compilation : 68.07 s
Final : 35.85 s
LRA non-specific : 14.53 s
Expand : 14.15 s
Constant expression evaluation : 1.37 s
Callgraph functions expansion : 0.27 s
Lexical analysis : 0.04 s
Initialize rtl : 0.02 s
Varconst : 0.02 s
Reload CSE regs : 0.02 s
Scheduling 2 : 0.02 s
Var-tracking emit : 0.02 s
Post expand cleanups : 0.01 s
Callgraph optimization : 0.01 s
Loop fini : 0.01 s
Hard reg cprop : 0.01 s
Df live&initialized regs : 0.01 s

Approximate time for compiling same files multiple times (excluding 'first'): 466.44 seconds.

3 Without Testing Framework, with Flag -O1

3.1 Module 1

3.1.1 Build 1 of 2

Test file analysis
Total compilation time : 1713.19 s
Test files (excluding mocks) : 20.38 s
Mock files : 0.00 s

Build activity analysis
Total compilation time : 1713.19 s
Template instantiation : 483.59 s
Parsing : 364.85 s
Preprocessing : 223.34 s
Callgraph functions expansion : 212.73 s
Symout : 113.81 s
Garbage collection : 85.04 s
Callgraph ipa passes : 80.73 s
Callgraph construction : 48.79 s
Integration : 6.06 s
Integrated RA : 1.30 s

Scheduling 2 : 0.81 s
Lexical analysis : 0.46 s
Final : 0.43 s
Dominator optimization : 0.33 s
Tree operand scan : 0.18 s
Rest of compilation : 0.17 s
Tree CFG cleanup : 0.16 s
Tree PRE : 0.15 s
Constant expression evaluation : 0.15 s
CSE : 0.14 s
Tree PTA : 0.13 s
Df live regs : 0.13 s
Tree FRE : 0.12 s
Expand : 0.12 s
Tree gimplify : 0.11 s
Combiner : 0.09 s
Alias stmt walking : 0.09 s
CSE 2 : 0.08 s
Tree forward propagate : 0.08 s
Variable tracking : 0.06 s
Reload CSE regs : 0.06 s
Inline parameters : 0.05 s
Var-tracking dataflow : 0.05 s
Callgraph optimization : 0.05 s
CPROP : 0.04 s
Tree CCP : 0.04 s
Dump files : 0.04 s
Tree SSA rewrite : 0.04 s
Tree VRP : 0.04 s
Df reg dead/unused notes : 0.03 s
Dominance computation : 0.03 s
PRE : 0.03 s
Initialize rtl : 0.03 s
Backwards jump threading : 0.02 s
LRA non-specific : 0.02 s
Alias analysis : 0.02 s
Thread pro- & epilogue : 0.02 s
Forward prop : 0.02 s
Shorten branches : 0.01 s
Reorder blocks : 0.01 s
Tree aggressive DCE : 0.01 s
Register information : 0.01 s
Machine dep reorg : 0.01 s
Loop fini : 0.01 s
Tree split crit edges : 0.01 s
Ipa inlining heuristics : 0.01 s

Hard reg cprop : 0.01 s
Gimple widening/fma detection : 0.01 s

Approximate time for compiling same files multiple times (excluding 'first'): 0.00 seconds.

3.1.2 Build 2 of 2

Test file analysis
Total compilation time : 1575.97 s
Test files (excluding mocks) : 19.09 s
Mock files : 0.00 s

Build activity analysis
Total compilation time : 1575.97 s
Template instantiation : 442.58 s
Parsing : 348.03 s
Preprocessing : 214.54 s
Callgraph functions expansion : 200.41 s
Symout : 101.02 s
Callgraph ipa passes : 74.86 s
Garbage collection : 61.77 s
Callgraph construction : 35.30 s
Integration : 6.19 s
Integrated RA : 1.36 s
Final : 0.66 s
Lexical analysis : 0.56 s
Scheduling 2 : 0.54 s
Constant expression evaluation : 0.23 s
Df live regs : 0.21 s
Tree CFG cleanup : 0.19 s
Tree operand scan : 0.16 s
Combiner : 0.14 s
Dominator optimization : 0.14 s
Tree FRE : 0.12 s
Variable tracking : 0.12 s
Reload CSE regs : 0.11 s
Tree PTA : 0.10 s
Tree VRP : 0.09 s
Rest of compilation : 0.08 s
CSE : 0.08 s
CPROP : 0.08 s
Tree CCP : 0.06 s
Dominance computation : 0.05 s
LRA non-specific : 0.05 s
Expand : 0.05 s

Cfg cleanup : 0.05 s
Initialize rtl : 0.04 s
Var-tracking emit : 0.04 s
Df reaching defs : 0.04 s
Loop init : 0.04 s
Df live&initialized regs : 0.04 s
Tree PRE : 0.04 s
Callgraph optimization : 0.04 s
Dump files : 0.03 s
Var-tracking dataflow : 0.03 s
Tree forward propagate : 0.03 s
Df reg dead/unused notes : 0.03 s
Alias analysis : 0.02 s
Address taken : 0.02 s
LRA create live ranges : 0.02 s
Alias stmt walking : 0.02 s
Tree gimplify : 0.02 s
Df must-initialized regs : 0.01 s
Forward prop : 0.01 s
LRA hard reg assignment : 0.01 s
Ipa cp : 0.01 s
Tree split crit edges : 0.01 s
Ipa function splitting : 0.01 s
LRA reload inheritance : 0.01 s
Tree SSA uncprop : 0.01 s
Tree SSA other : 0.01 s
PRE : 0.01 s
Remove unused locals : 0.01 s
Complete unrolling : 0.01 s

Approximate time for compiling same files multiple times (excluding 'first'): 0.00 seconds.

3.2 Module 2

3.2.1 Build 1 of 2

Test file analysis
Total compilation time : 2653.97 s
Test files (excluding mocks) : 1.24 s
Mock files : 0.00 s

Build activity analysis
Total compilation time : 2653.97 s
Parsing : 749.69 s
Preprocessing : 543.61 s

Template instantiation : 438.76 s
Callgraph functions expansion : 432.49 s
Callgraph ipa passes : 146.04 s
Symout : 116.93 s
Garbage collection : 19.81 s
Integration : 19.15 s
Callgraph construction : 13.36 s
Rest of compilation : 6.89 s
Constant expression evaluation : 6.50 s
Integrated RA : 6.12 s
Dominator optimization : 4.69 s
Final : 3.62 s
Trivially dead code : 3.38 s
Var-tracking dataflow : 2.27 s
Var-tracking emit : 1.79 s
Alias stmt walking : 1.48 s
Tree DSE : 1.34 s
Expand : 0.52 s
Ipa function summary : 0.43 s
Dominance computation : 0.41 s
Variable tracking : 0.26 s
Tree operand scan : 0.12 s
Reload CSE regs : 0.09 s
Cfg cleanup : 0.02 s
Dump files : 0.02 s
Lexical analysis : 0.02 s
CPROP : 0.02 s
Tree buildin call DCE : 0.01 s
Address taken : 0.01 s

Approximate time for compiling same files multiple times (excluding 'first'): 0.00 seconds.

3.2.2 Build 2 of 2

Test file analysis
Total compilation time : 2601.85 s
Test files (excluding mocks) : 1.29 s
Mock files : 0.00 s

Build activity analysis
Total compilation time : 2601.85 s
Parsing : 743.52 s
Preprocessing : 484.22 s
Callgraph functions expansion : 438.06 s
Template instantiation : 437.62 s

Callgraph ipa passes : 148.75 s
Symout : 124.69 s
Garbage collection : 20.37 s
Integration : 19.42 s
Callgraph construction : 14.01 s
Integrated RA : 7.52 s
Constant expression evaluation : 7.20 s
Dominator optimization : 6.12 s
Rest of compilation : 5.68 s
Trivially dead code : 3.36 s
Final : 3.22 s
Var-tracking dataflow : 2.51 s
Var-tracking emit : 1.86 s
Alias stmt walking : 1.34 s
Tree DSE : 1.07 s
Variable tracking : 0.84 s
Expand : 0.61 s
Ipa function summary : 0.43 s
Dump files : 0.30 s
Callgraph optimization : 0.18 s
Tree operand scan : 0.13 s
Reload CSE regs : 0.08 s
Lexical analysis : 0.04 s
Df live regs : 0.04 s
Dominance computation : 0.02 s
Loop init : 0.01 s
LRA non-specific : 0.01 s
Tree FRE : 0.01 s
Initialize rtl : 0.01 s

Approximate time for compiling same files multiple times (excluding 'first'): 0.00 seconds.

4 Without Testing Framework, with Flag -O0

4.1 Module 1

4.1.1 Build 1 of 2

Test file analysis
Total compilation time : 1359.83 s
Test files (excluding mocks) : 11.73 s
Mock files : 0.00 s

Build activity analysis

Total compilation time : 1359.83 s
Template instantiation : 435.43 s
Parsing : 351.29 s
Preprocessing : 210.41 s
Symout : 81.93 s
Garbage collection : 57.66 s
Callgraph construction : 41.37 s
Integrated RA : 7.29 s
Callgraph functions expansion : 4.18 s
Callgraph ipa passes : 4.10 s
Rest of compilation : 2.60 s
Final : 0.99 s
LRA non-specific : 0.77 s
Lexical analysis : 0.54 s
Constant expression evaluation : 0.25 s
Scheduling 2 : 0.18 s
Dominator optimization : 0.17 s
Expand : 0.16 s
CSE : 0.11 s
Tree CFG cleanup : 0.10 s
Df live regs : 0.10 s
Dump files : 0.09 s
Combiner : 0.09 s
Tree VRP : 0.08 s
Tree gimplify : 0.06 s
Tree CCP : 0.06 s
Reload CSE regs : 0.06 s
LRA create live ranges : 0.05 s
Initialize rtl : 0.05 s
Thread pro- & epilogue : 0.04 s
Tree PTA : 0.03 s
Callgraph optimization : 0.03 s
Var-tracking emit : 0.03 s
Df scan insns : 0.03 s
Tree operand scan : 0.02 s
Tree reassociation : 0.02 s
Var-tracking dataflow : 0.02 s
Tree FRE : 0.02 s
Dead store elim1 : 0.02 s
Dominance computation : 0.02 s
Remove unused locals : 0.02 s
Register information : 0.02 s
CPROP : 0.02 s
LRA reload inheritance : 0.02 s
Cfg cleanup : 0.02 s
Tree linearize phis : 0.01 s

Dominance frontiers : 0.01 s
Variable tracking : 0.01 s
Cfg construction : 0.01 s
Gimple widening/fma detection : 0.01 s
Trivially dead code : 0.01 s
Inline parameters : 0.01 s
Tree iv optimization : 0.01 s
Tree forward propagate : 0.01 s
Tree SSA other : 0.01 s
Repair loop structures : 0.01 s
Alias stmt walking : 0.01 s

Approximate time for compiling same files multiple times (excluding 'first'): 0.00 seconds.

4.1.2 Build 2 of 2

Test file analysis
Total compilation time : 1361.86 s
Test files (excluding mocks) : 12.05 s
Mock files : 0.00 s

Build activity analysis
Total compilation time : 1361.86 s
Template instantiation : 433.97 s
Parsing : 353.50 s
Preprocessing : 210.34 s
Symout : 83.47 s
Garbage collection : 57.82 s
Callgraph construction : 41.66 s
Integrated RA : 7.62 s
Callgraph functions expansion : 4.17 s
Callgraph ipa passes : 4.02 s
Rest of compilation : 2.48 s
Final : 1.44 s
Lexical analysis : 0.54 s
Expand : 0.47 s
LRA non-specific : 0.41 s
Dump files : 0.22 s
Tree gimplify : 0.17 s
Tree VRP : 0.13 s
Tree PRE : 0.12 s
Combiner : 0.11 s
Tree FRE : 0.11 s
Constant expression evaluation : 0.08 s
Scheduling 2 : 0.07 s

Tree operand scan : 0.04 s
Initialize rtl : 0.04 s
Variable tracking : 0.04 s
Var-tracking emit : 0.03 s
Dominator optimization : 0.03 s
Thread pro- & epilogue : 0.03 s
Df live regs : 0.03 s
Shorten branches : 0.03 s
Reload CSE regs : 0.03 s
CPROP : 0.03 s
Df scan insns : 0.02 s
Df use-def / def-use chains : 0.02 s
Tree CFG construction : 0.02 s
Tree Early VRP : 0.02 s
Dead store elim1 : 0.02 s
Trivially dead code : 0.01 s
Tree eh : 0.01 s
Tree SSA other : 0.01 s
Ipa cp : 0.01 s
Tree CCP : 0.01 s
Rebuild jump labels : 0.01 s
Post expand cleanups : 0.01 s
Integration : 0.01 s
Dominance computation : 0.01 s
Df reg dead/unused notes : 0.01 s
Dead store elim2 : 0.01 s
Callgraph optimization : 0.01 s
Alias analysis : 0.01 s
LRA hard reg assignment : 0.01 s

Approximate time for compiling same files multiple times (excluding 'first'): 0.00 seconds.

4.2 Module 2

4.2.1 Build 1 of 2

Test file analysis
Total compilation time : 2317.89 s
Test files (excluding mocks) : 1.33 s
Mock files : 0.00 s

Build activity analysis
Total compilation time : 2317.89 s
Parsing : 775.78 s
Preprocessing : 503.52 s

Template instantiation : 452.83 s
Symout : 75.73 s
Integrated RA : 38.00 s
Callgraph construction : 37.82 s
Garbage collection : 19.82 s
Callgraph ipa passes : 17.06 s
Rest of compilation : 10.39 s
Final : 7.82 s
LRA non-specific : 4.99 s
Expand : 4.77 s
Constant expression evaluation : 0.88 s
Callgraph functions expansion : 0.28 s
Lexical analysis : 0.05 s
Initialize rtl : 0.02 s
Tree CFG cleanup : 0.02 s
Tree operand scan : 0.02 s
CSE : 0.02 s

Approximate time for compiling same files multiple times (excluding 'first'): 0.00 seconds.

4.2.2 Build 2 of 2

Test file analysis
Total compilation time : 2403.44 s
Test files (excluding mocks) : 1.33 s
Mock files : 0.00 s

Build activity analysis
Total compilation time : 2403.44 s
Parsing : 784.36 s
Preprocessing : 583.09 s
Template instantiation : 448.89 s
Symout : 73.80 s
Callgraph construction : 33.81 s
Integrated RA : 33.22 s
Garbage collection : 20.14 s
Callgraph ipa passes : 16.70 s
Rest of compilation : 11.78 s
Final : 8.33 s
Expand : 5.05 s
LRA non-specific : 4.81 s
Constant expression evaluation : 0.98 s
Dump files : 0.54 s
Callgraph functions expansion : 0.30 s
Lexical analysis : 0.11 s

Df scan insns : 0.09 s
Thread pro- & epilogue : 0.09 s
Initialize rtl : 0.01 s
Reload : 0.01 s
Tree SSA rewrite : 0.01 s

Approximate time for compiling same files multiple times (excluding 'first'): 0.00 seconds.