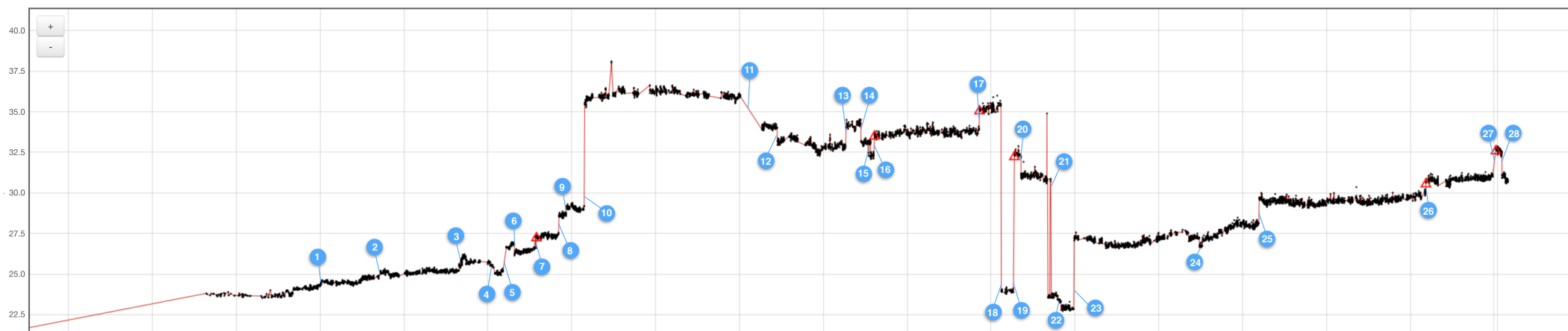




1. r239821: [InstSimplify] Allow folding of fdiv X, X with just NaNs ignored. +1%
2. r241886: [InstCombine] Employ AliasAnalysis in FindAvailableLoadedValue. +1%
3. r245118: [SCEV] Apply NSW and NUW flags via poison value analysis for sub, mul and shl. +2%
4. r246694: [RemoveDuplicatePHINodes] Start over after removing a PHI. -1%
5. r247269: [ADT] Rewrite the StringRef::find implementation to be simpler... +1%
r247240: [LPM] Use a map from analysis ID to immutable passes in the legacy pass manager... +3%
r247264: Enable GlobalsAA by default. +1%
6. r247674: [GlobalsAA] Disable globals-aa by default. -1%
7. r248638: [SCEV] Reapply 'Teach isLoopBackedgeGuardedByCond to exploit trip counts'. +2%
8. r249802: [SCEV] Call 'StrengthenNoWrapFlags' after 'GroupByComplexity'; NFCI. +4%
9. r250157: [GlobalsAA] Turn GlobalsAA on again by default. +1%
10. r251049: [SCEV] Mark AddExprs as nsw or nuw if legal. +23%
11. No data
12. r259252: AttributeSetImpl: Summarize existing function attributes in a bitset. -1%
r259256: Add LoopSimplifyCFG pass. -2%
13. r262250: Enable LoopLoadElimination by default. +3%
14. r262839: Revert "Enable LoopLoadElimination by default". -3%

15. r263393: Remove PreserveNames template parameter from IRBuilder. -3%
16. r263595: Turn LoopLoadElimination on again. +3%
17. r267672: [LoopDist] Add llvm.loop.distribute.enable loop metadata. +4%
18. r268509: Do not disable completely loop unroll when optimizing for size. -34%
19. r269124: Loop unroller: set thresholds for optsize and minsize functions to zero. +50%
20. r269392: [LoopDist] Only run LAA for loops with the pragma. -4%
21. r270630: Re-enable "[LoopUnroll] Enable advanced unrolling analysis by default" one more time. -28%
22. r270881: Don't allocate in APInt::slt. NFC. -2%
r270959: Don't allocate unnecessarily in APInt::operator[+]. NFC. -1%
r271020: Don't generate unnecessary signed ConstantRange during multiply. NFC. -3%
23. r271615: [LoopUnroll] Set correct thresholds for new recently enabled unrolling heuristic. +22%
24. r276942: Don't invoke getName() from Function::isIntrinsic(). -1%
r277087: Revert "Don't invoke getName() from Function::isIntrinsic()", rL276942. +1%
25. r279585: [LoopUnroll] By default disable unrolling when optimizing for size.
26. r286814: [InlineCost] Remove skew when calculating call costs. +3%
27. r289755: Make processing @llvm.assume more efficient by using operand bundles. +6%
28. r290086: Revert @llvm.assume with operator bundles (r289755-r289757). -6%