# GZIP













Svn add 



# VPR



















# GCC



















# MCF



















# GAP













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# TWOLF















# Performance Vs. Cost Analysis



# Best Configuration

The memory configuration that is viewed to be ideal depends on the factor which is most important. If performance is the driving requirement, then the fully-associative cache is best. This cache has the smallest execution time for four out of six traces. This cache is also by far the most expensive, costing around four times the amount of the next less expensive, and therefore is not a practical choice. A decent tradeoff is the L2Big configuration, which is about a fourth of the cost. Ignoring the fully associative performance, this configuration has the best performance for four out of six of the traces, and in fact outperforms the FA configuration on the gzip trace. A more scientific measurement is to look at the actual cost per performance of each of the memory configurations. Looking at this, we see that L2-2 way configuration has the best performance for its money. Closely following this is the base direct mapped configuration. The next best by a slightly bigger margin is the L2big configuration. The L12, All2, and L12L24 configurations are all similar, and not as good. The fully associative configuration has by far the worst performance for its cost.