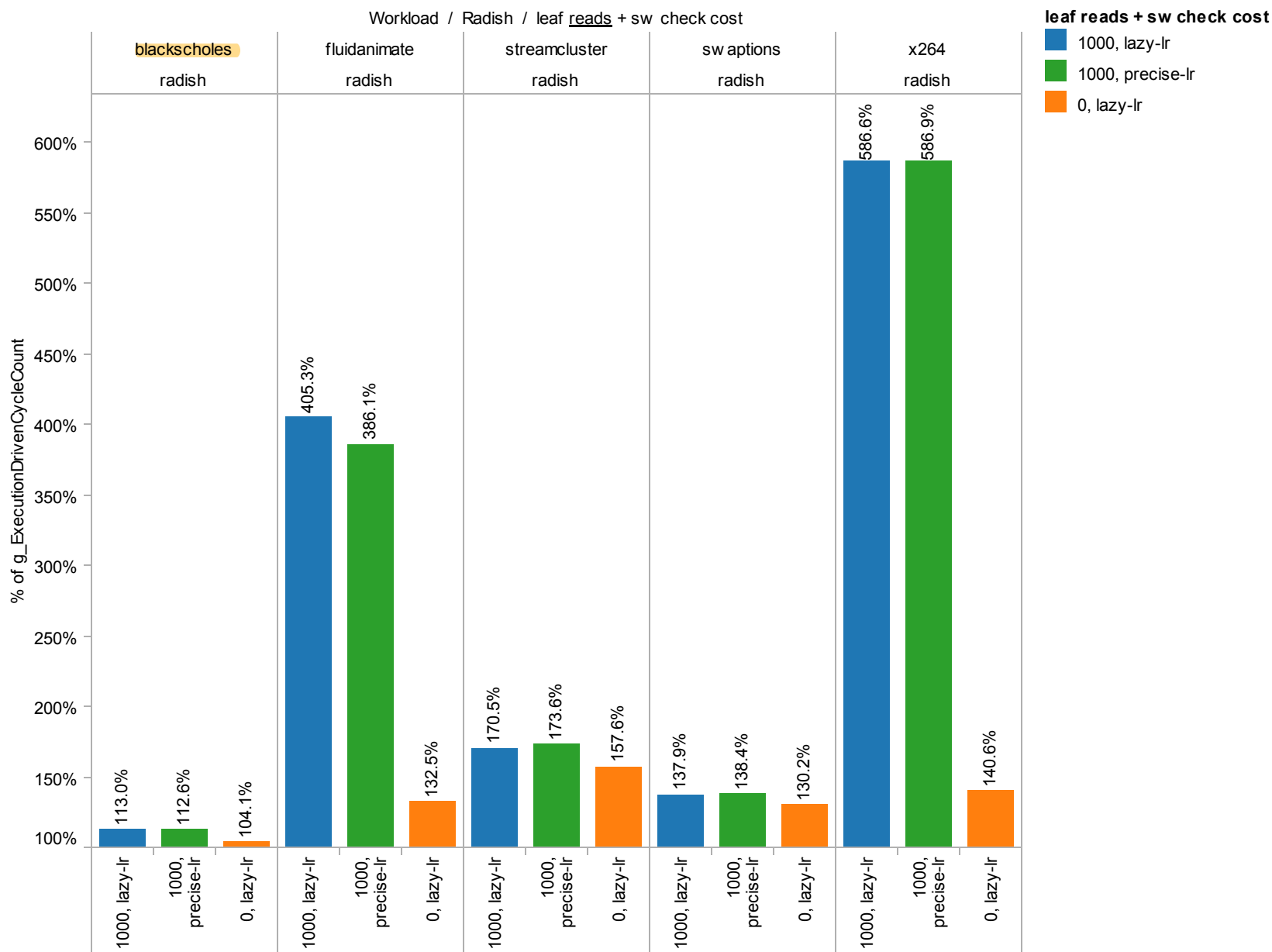


precise leaf reads



The effect of managing leaf read information lazily (blue bars - updates occur only when existing coherence messages are sent) and precisely (green bars - updates occur on every single read operation). There is no performance penalty for the extra updates with the precise version, so we should see a benefit in terms of fewer software checks (and thus better performance).

However, there is only a very small benefit for fluidanimate (and some mild degradation, even, for streamcluster and sw options). This result indicates that either 1) lazy updates are nearly as good as precise updates or 2) leaf reads as a whole aren't that useful an optimization.

Finally, the orange bars show runtime if software checks were free - confirming that software checks are indeed our primary source of overhead (as opposed to, say, cache pollution).