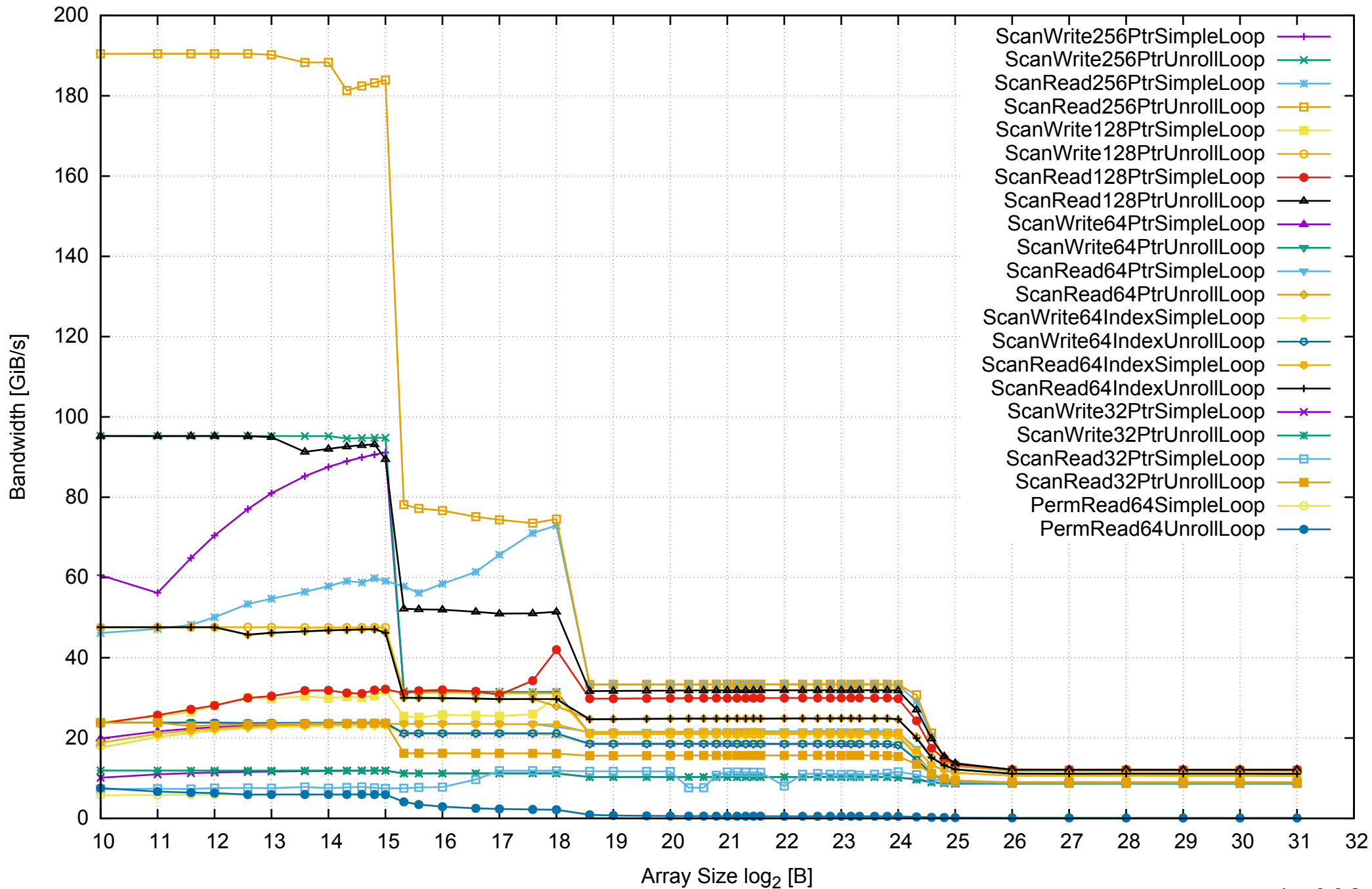
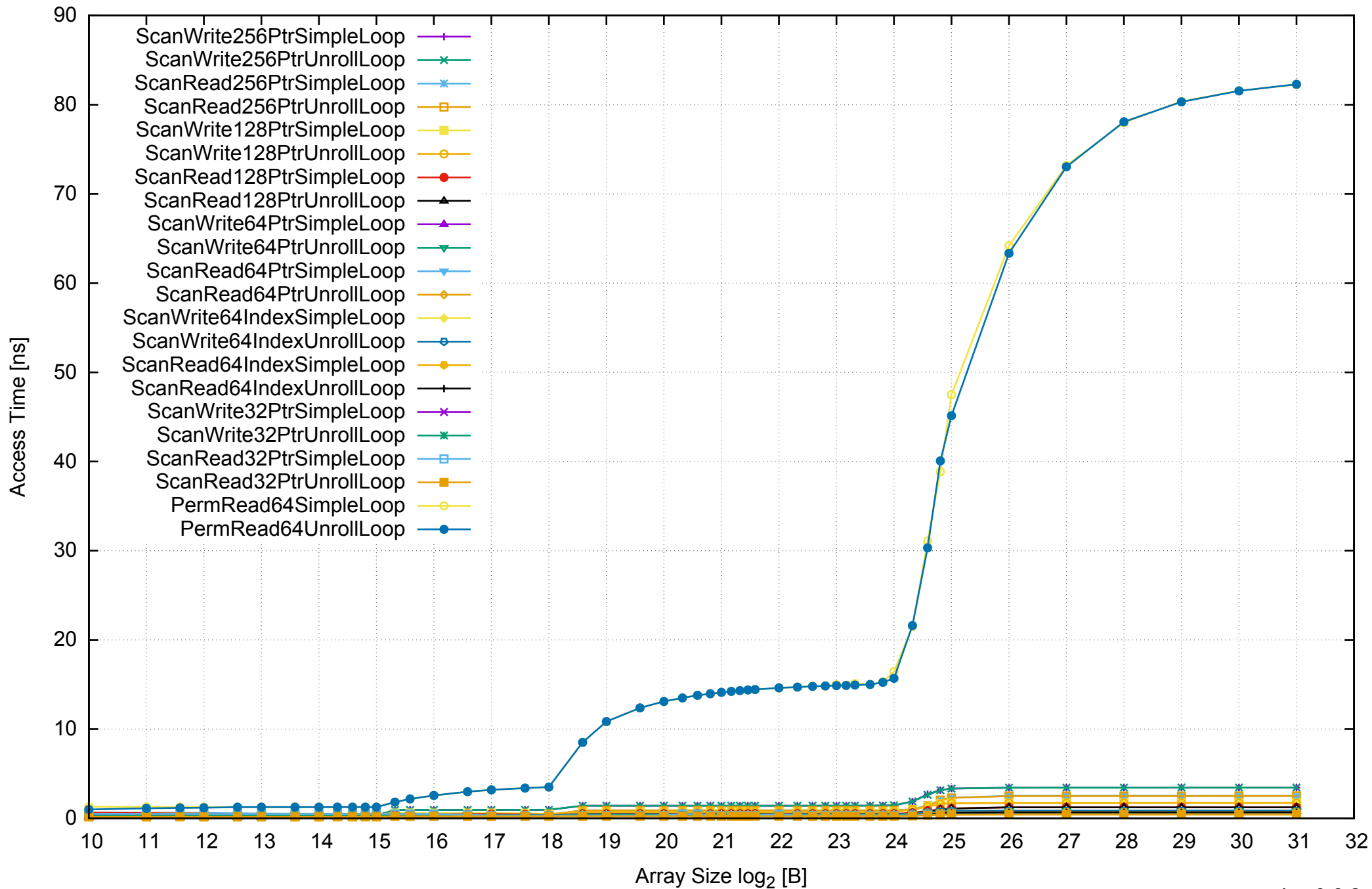


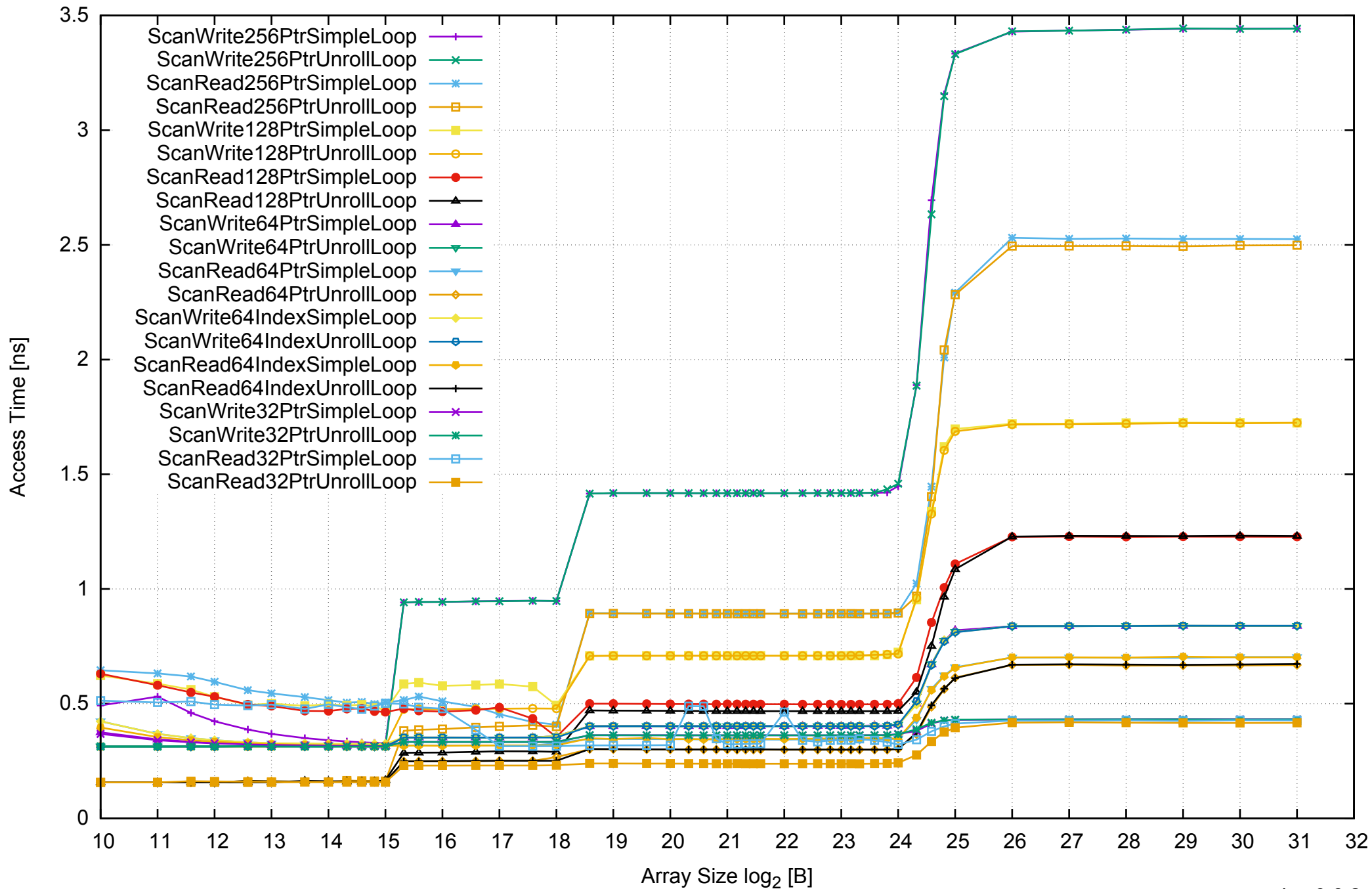
AWS c4.large - Intel Xeon E5-2666 v3 2.90 GHz 3.75GB - One Thread Memory Bandwidth



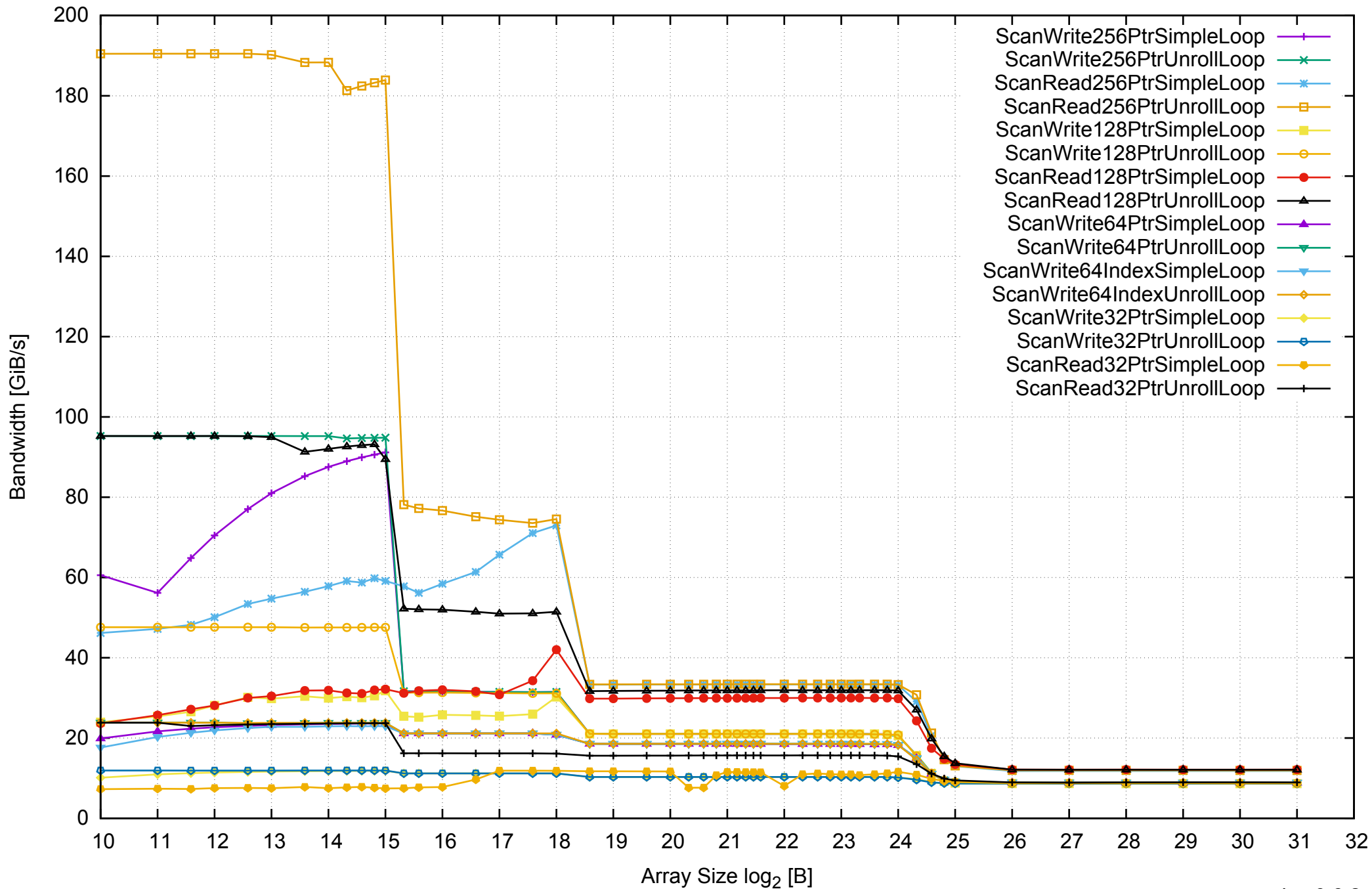
AWS c4.large - Intel Xeon E5-2666 v3 2.90 GHz 3.75GB - One Thread Memory Latency (Access Time)



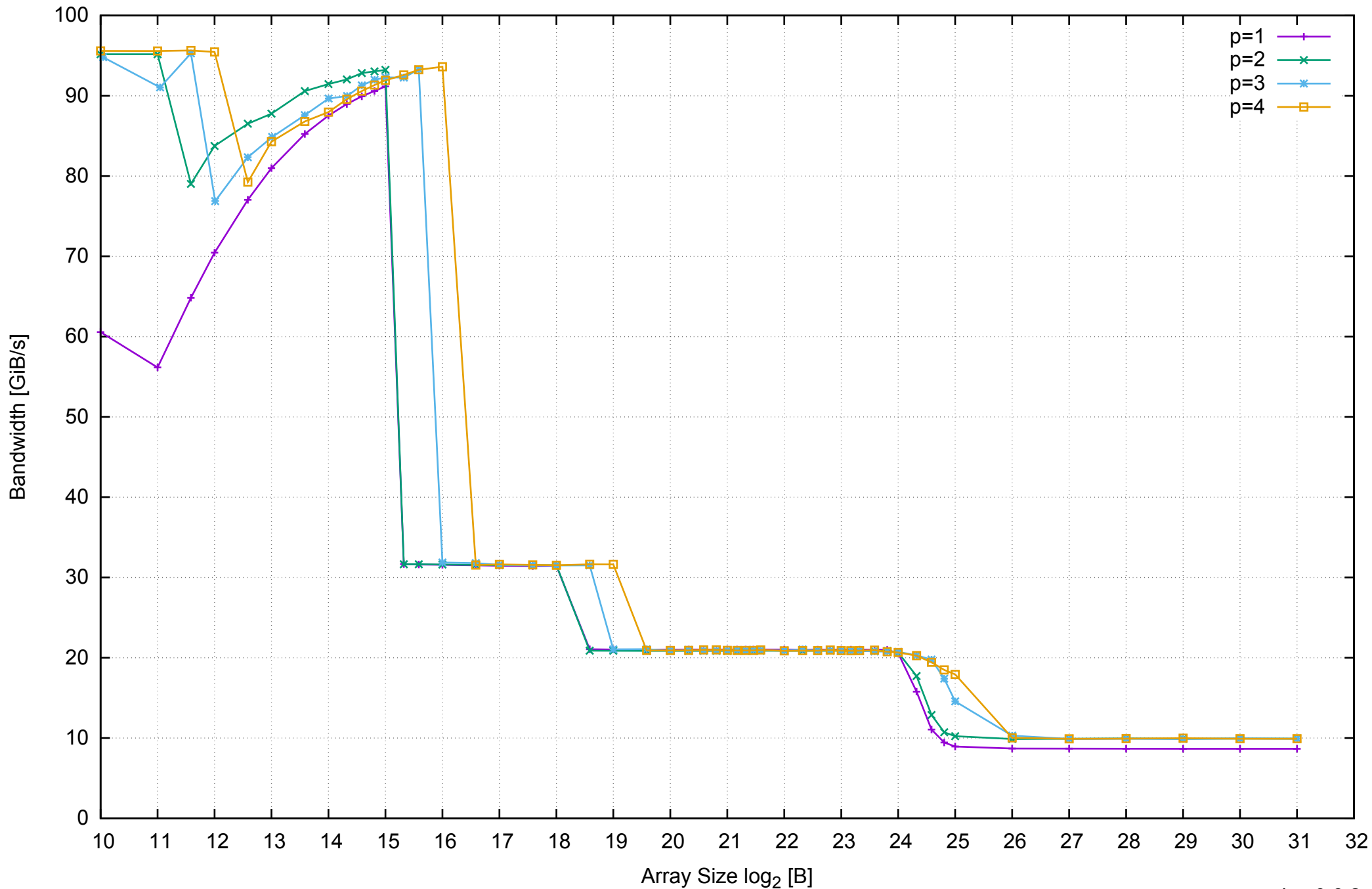
AWS c4.large - Intel Xeon E5-2666 v3 2.90 GHz 3.75GB - One Thread Memory Latency (excluding Permutation)



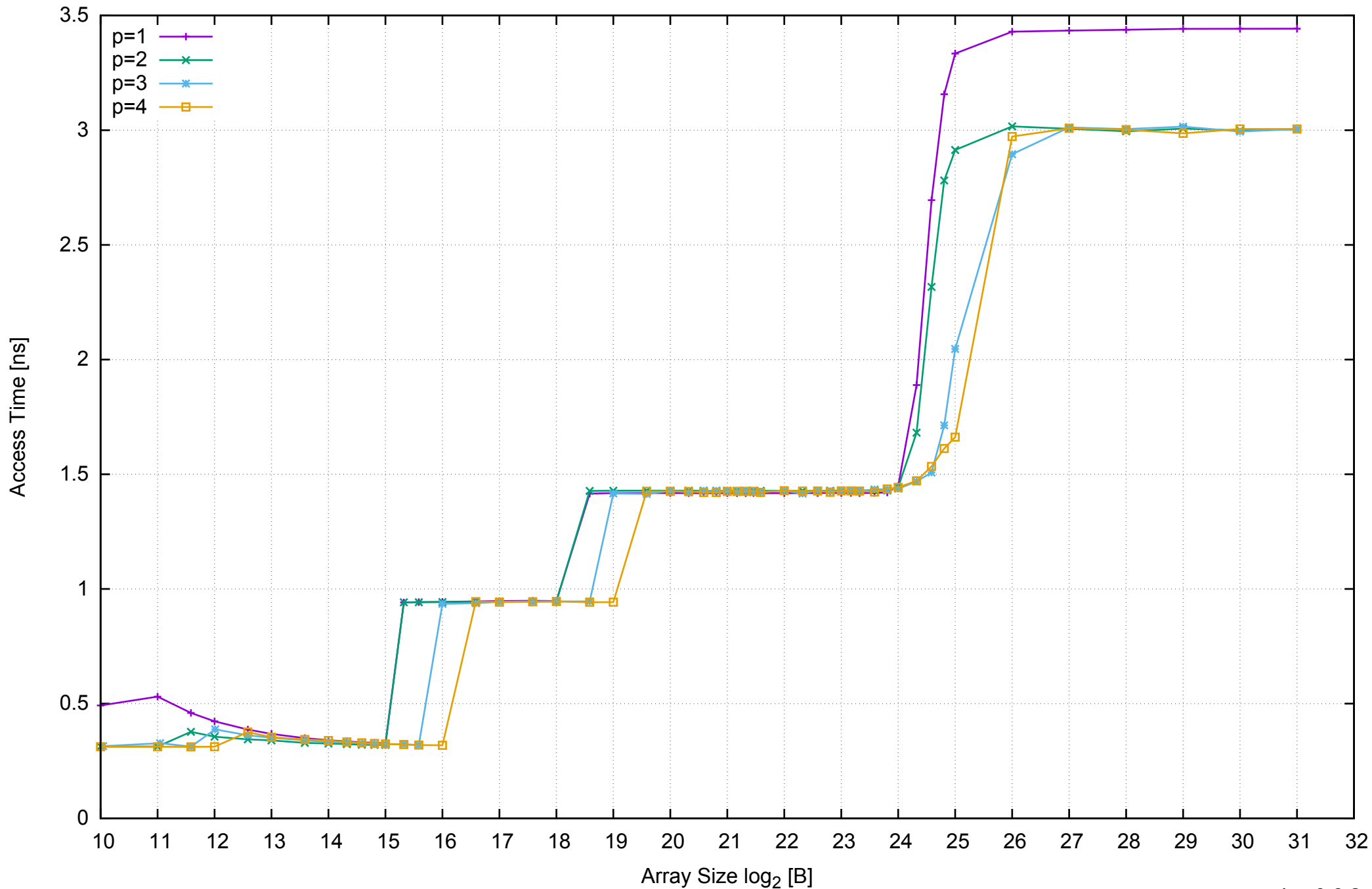
AWS c4.large - Intel Xeon E5-2666 v3 2.90 GHz 3.75GB - One Thread Memory Bandwidth (only 64-bit Reads)



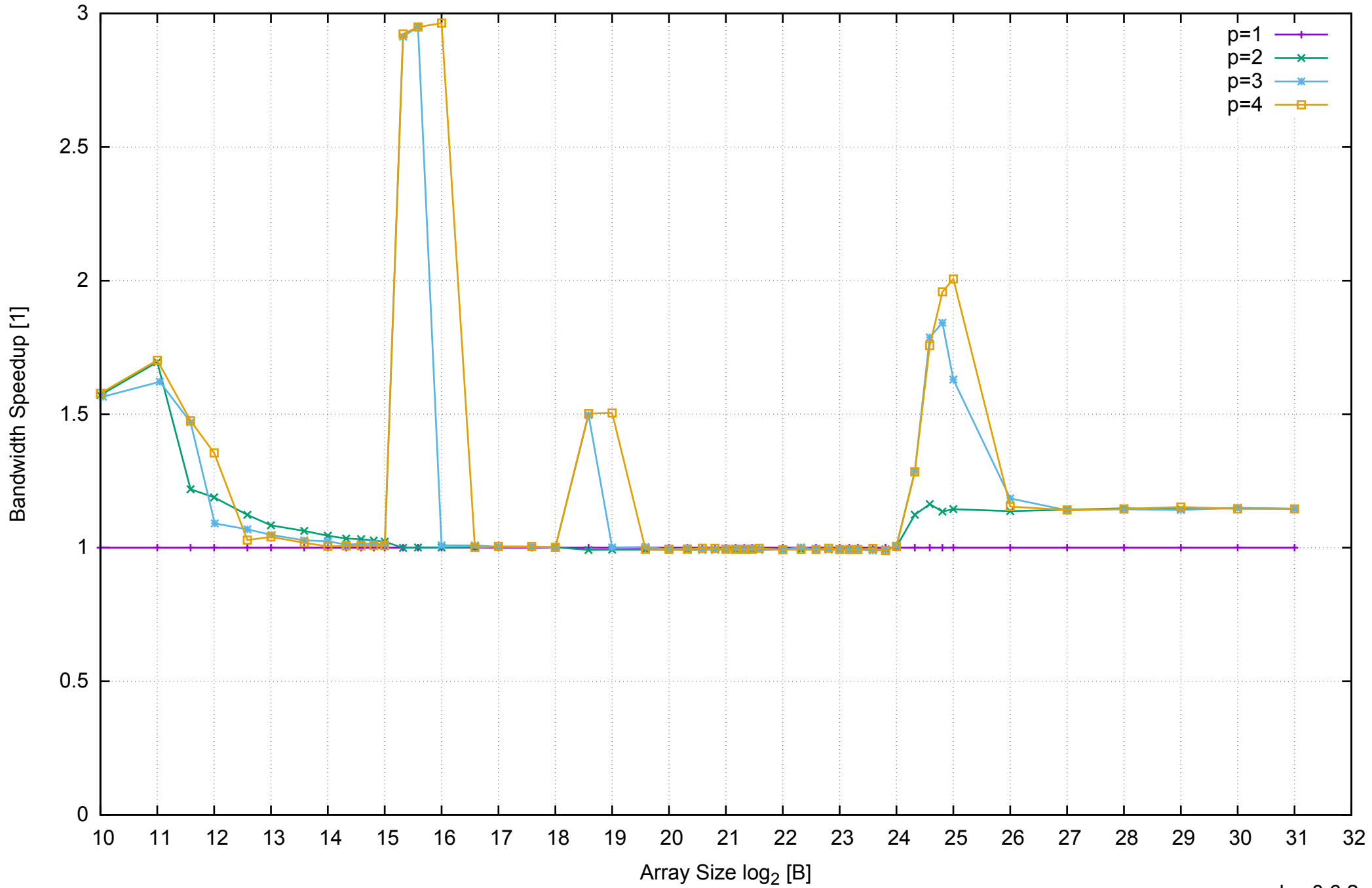
AWS c4.large - Intel Xeon E5-2666 v3 2.90 GHz 3.75GB - Parallel Memory Bandwidth - ScanWrite256PtrSimpleLoop

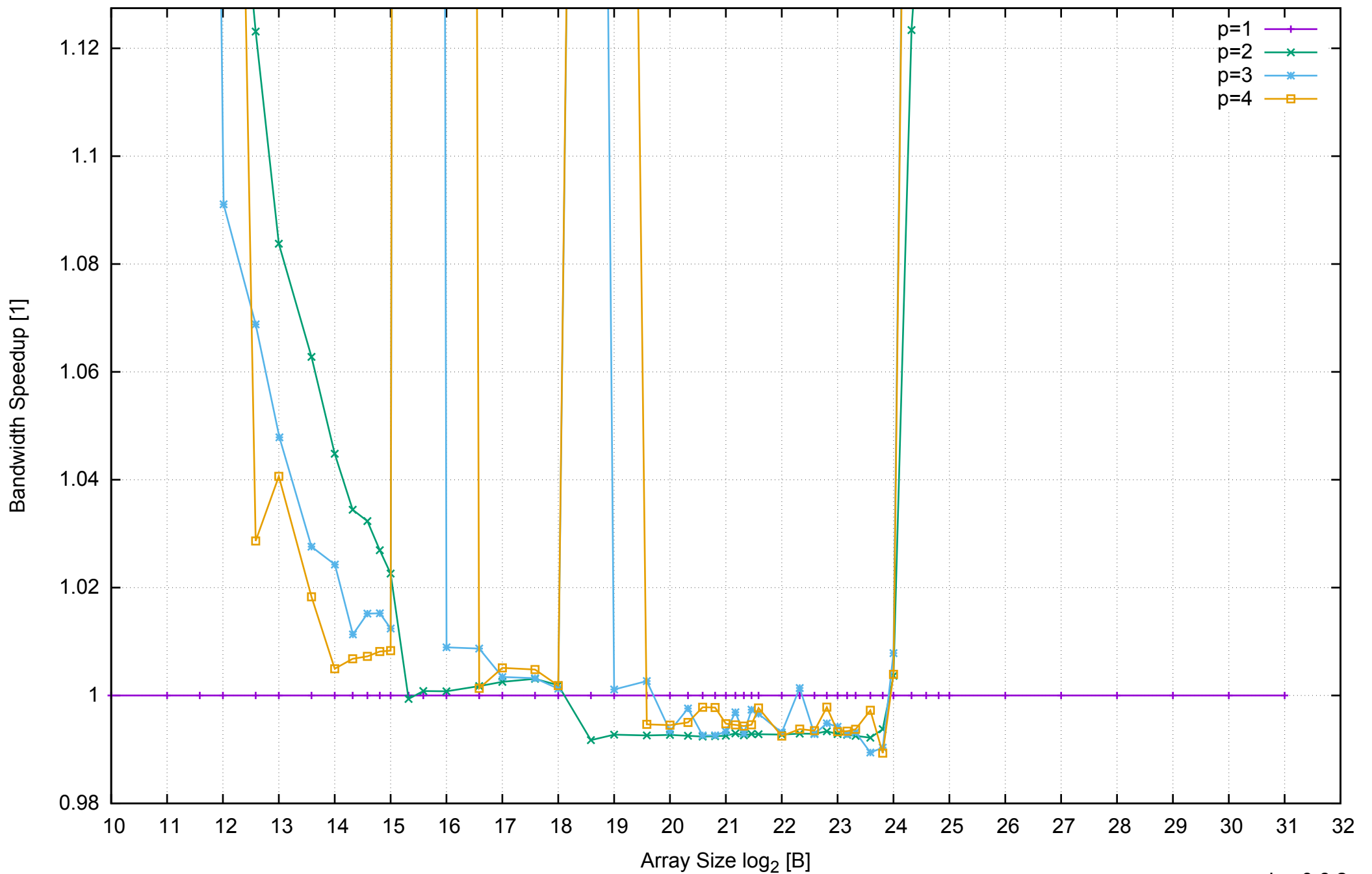


AWS c4.large - Intel Xeon E5-2666 v3 2.90 GHz 3.75GB - Parallel Memory Access Time - ScanWrite256PtrSimpleLoop



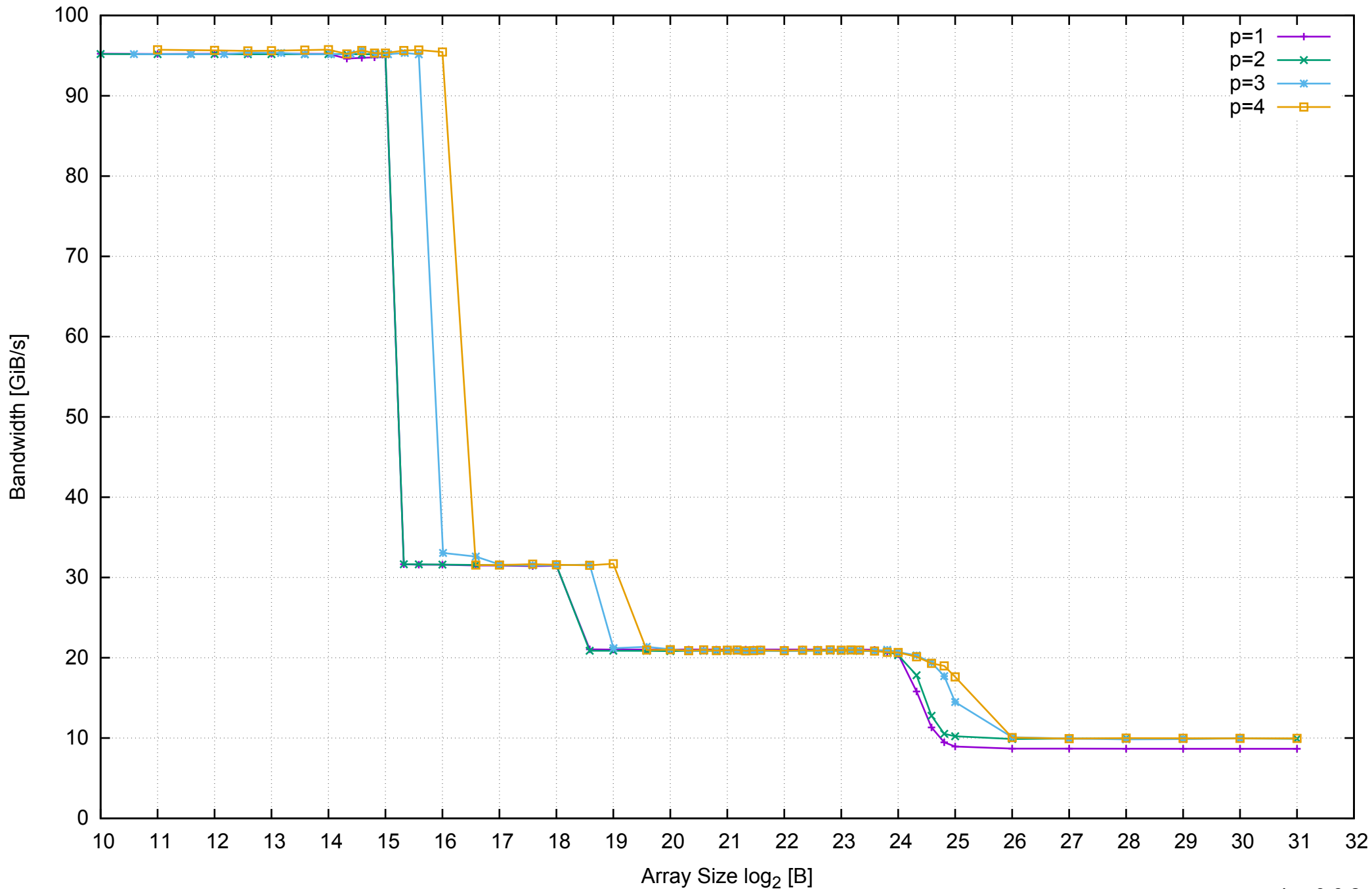
AWS c4.large - Intel Xeon E5-2666 v3 2.90 GHz 3.75GB - Speedup of Parallel Memory Bandwidth - ScanWrite256PtrSimpleLoop



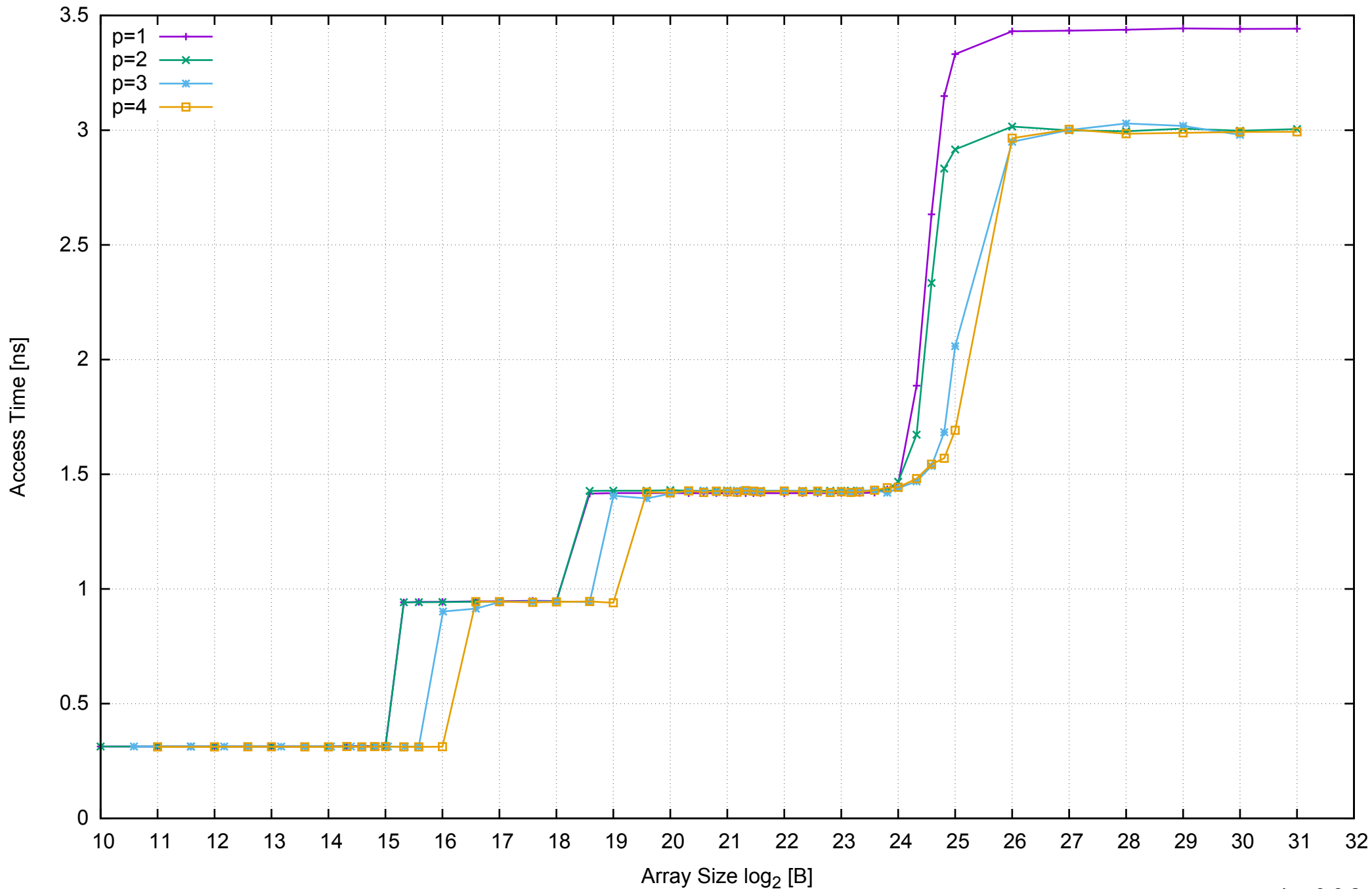




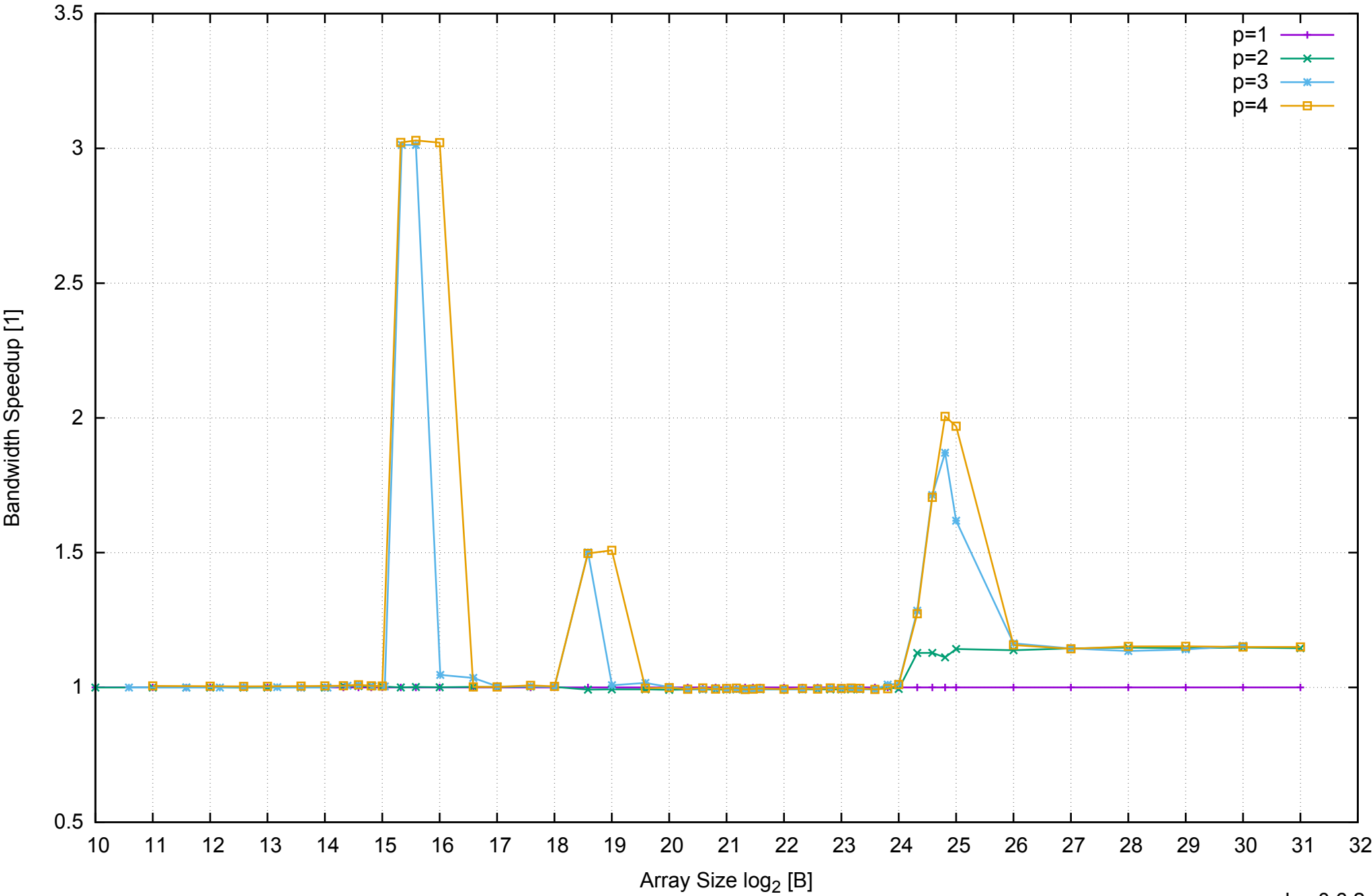
AWS c4.large - Intel Xeon E5-2666 v3 2.90 GHz 3.75GB - Parallel Memory Bandwidth - ScanWrite256PtrUnrollLoop



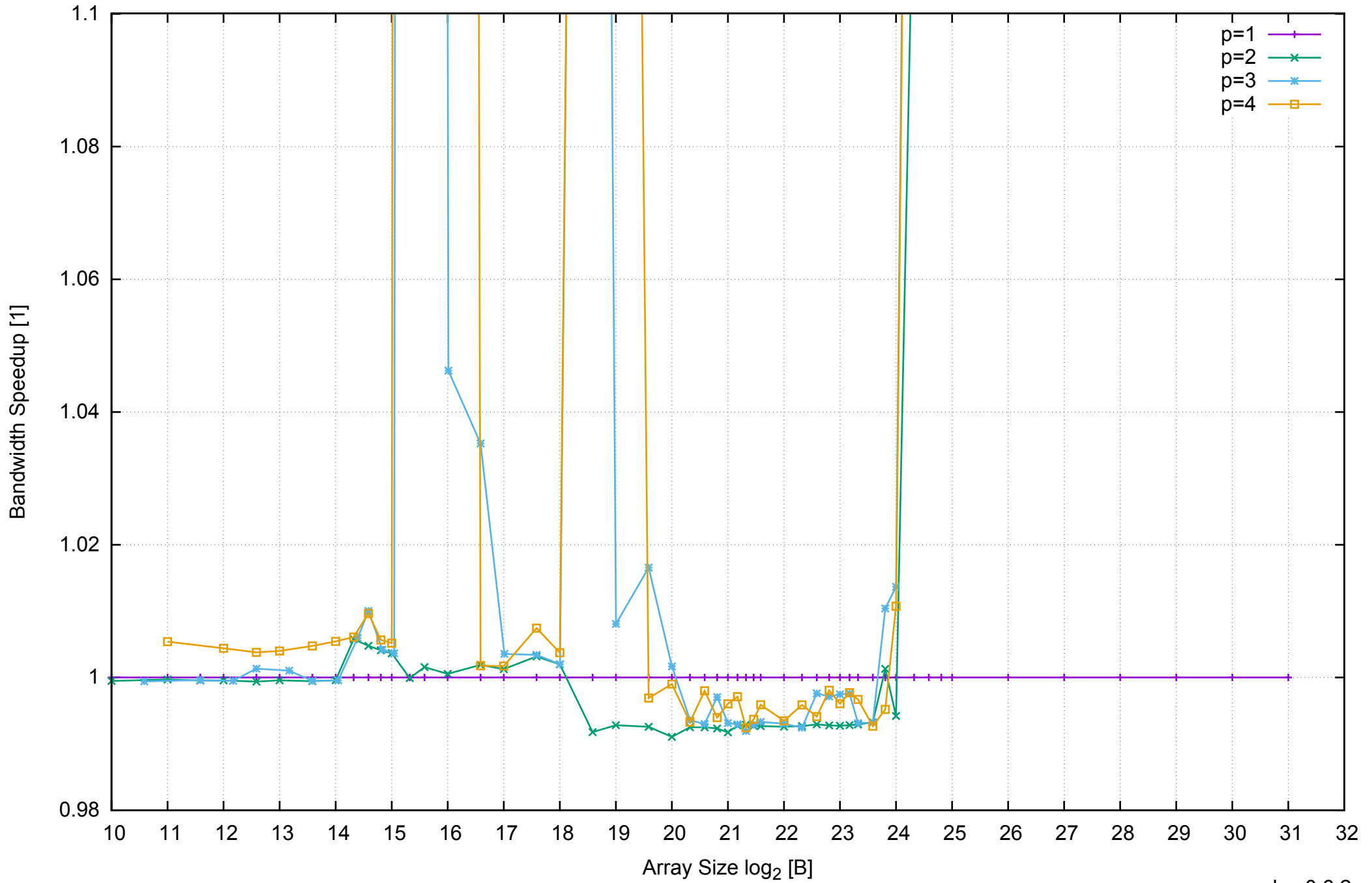
AWS c4.large - Intel Xeon E5-2666 v3 2.90 GHz 3.75GB - Parallel Memory Access Time - ScanWrite256PtrUnrollLoop



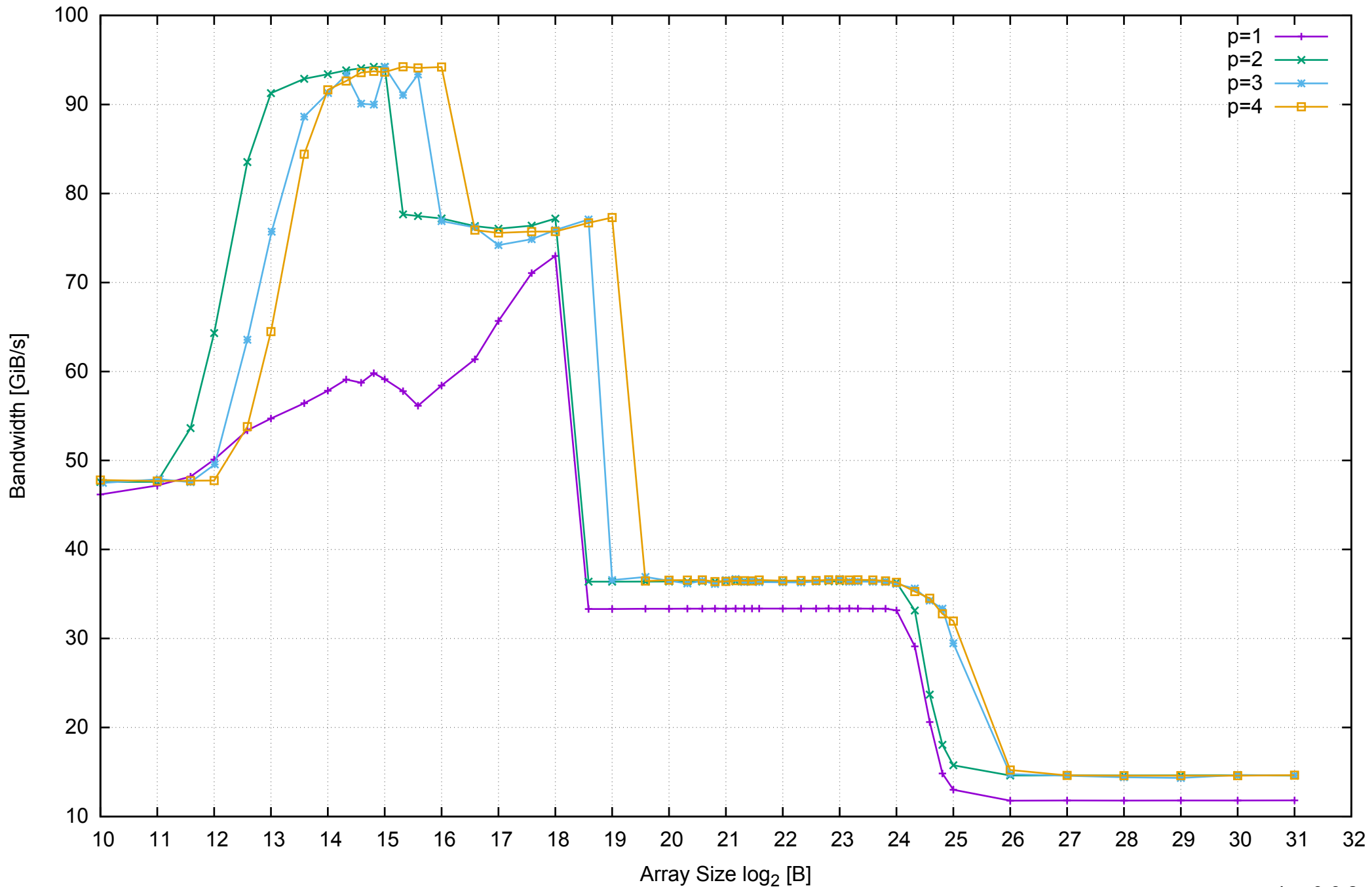
AWS c4.large - Intel Xeon E5-2666 v3 2.90 GHz 3.75GB - Speedup of Parallel Memory Bandwidth - ScanWrite256PtrUnrollLoop



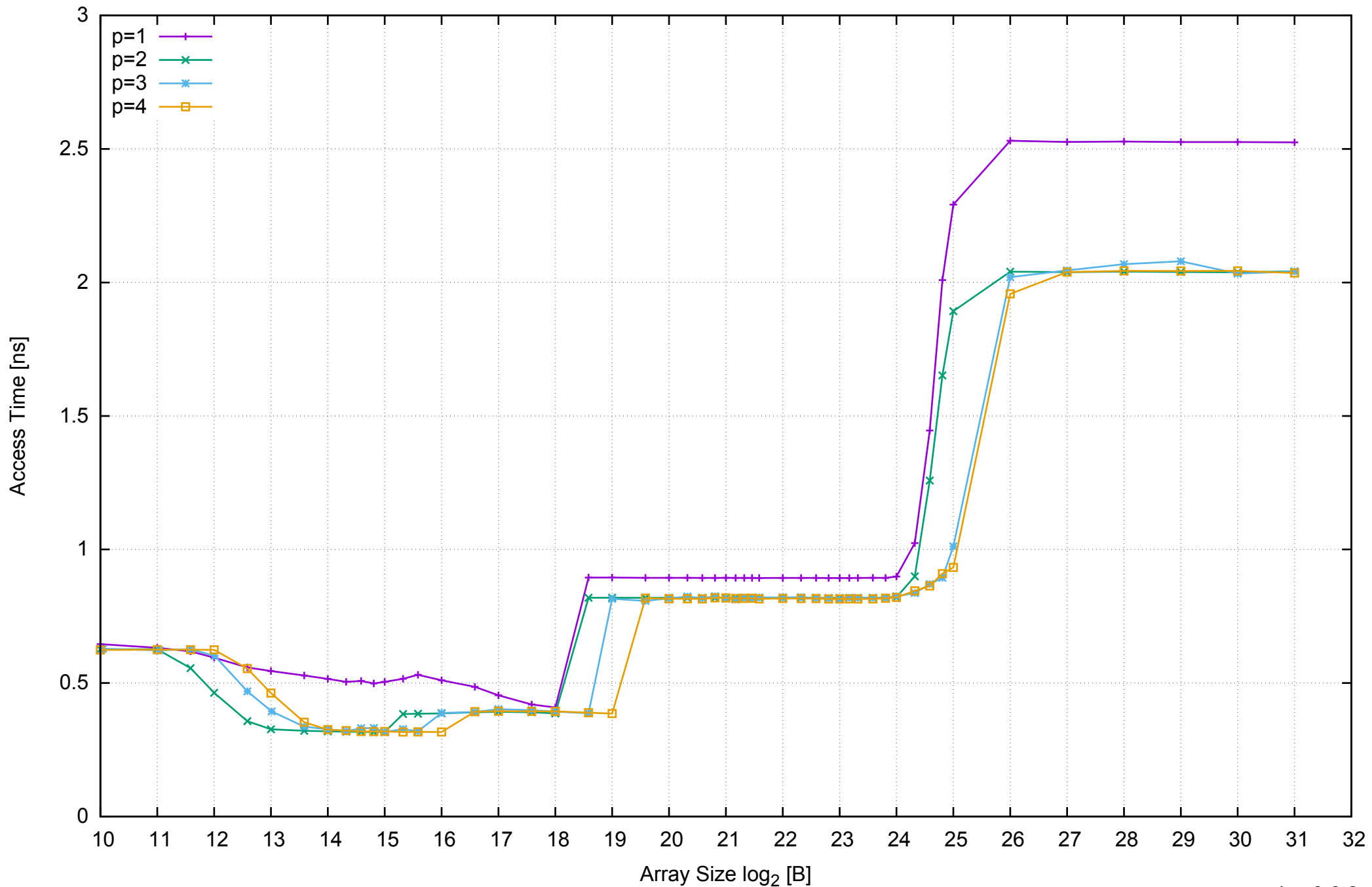
AWS c4.large - Intel Xeon E5-2666 v3 2.90 GHz 3.75GB - Speedup of Parallel Memory Bandwidth (enlarged) - ScanWrite256PtrUnrollLoop



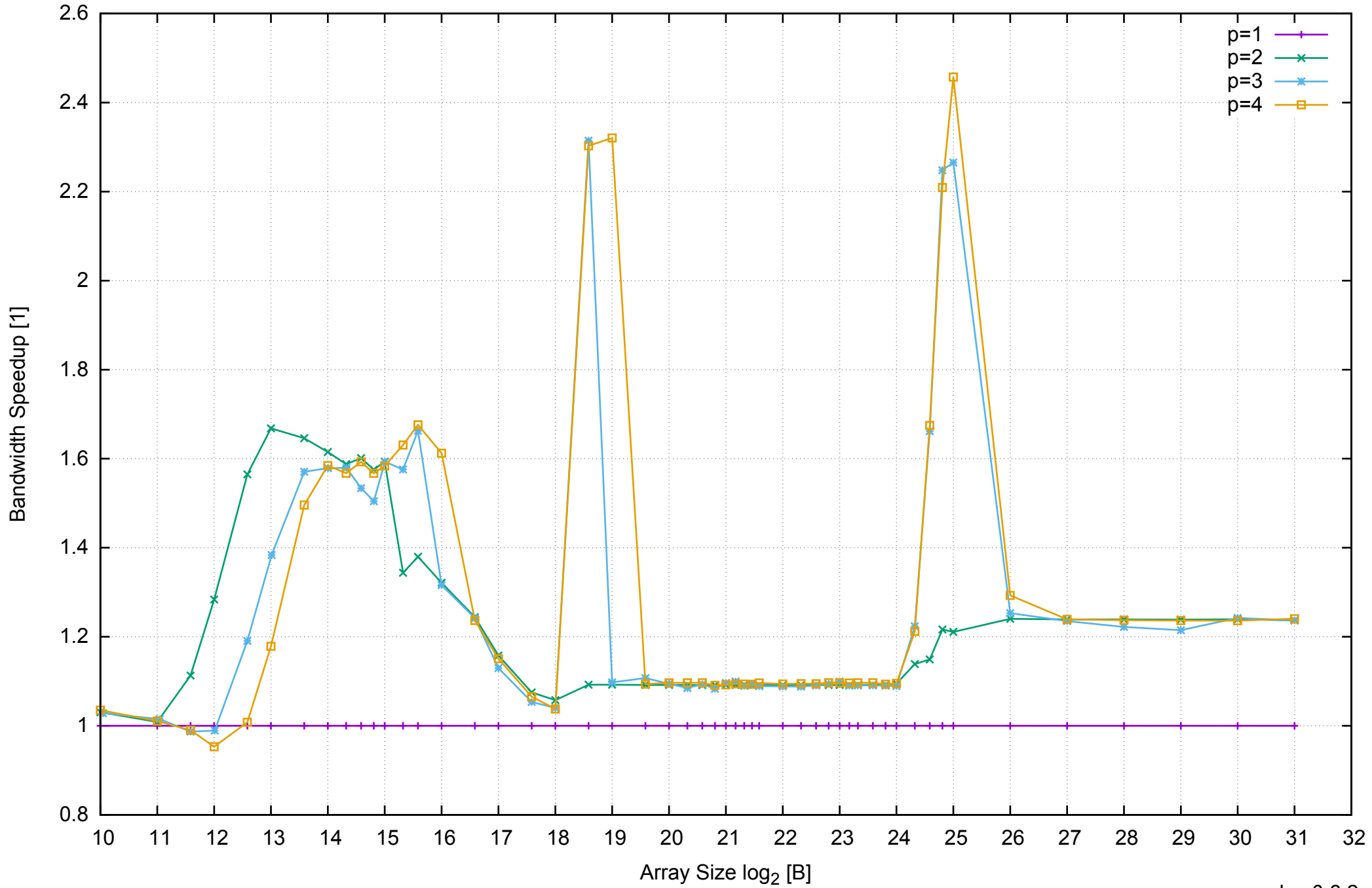
AWS c4.large - Intel Xeon E5-2666 v3 2.90 GHz 3.75GB - Parallel Memory Bandwidth - ScanRead256PtrSimpleLoop

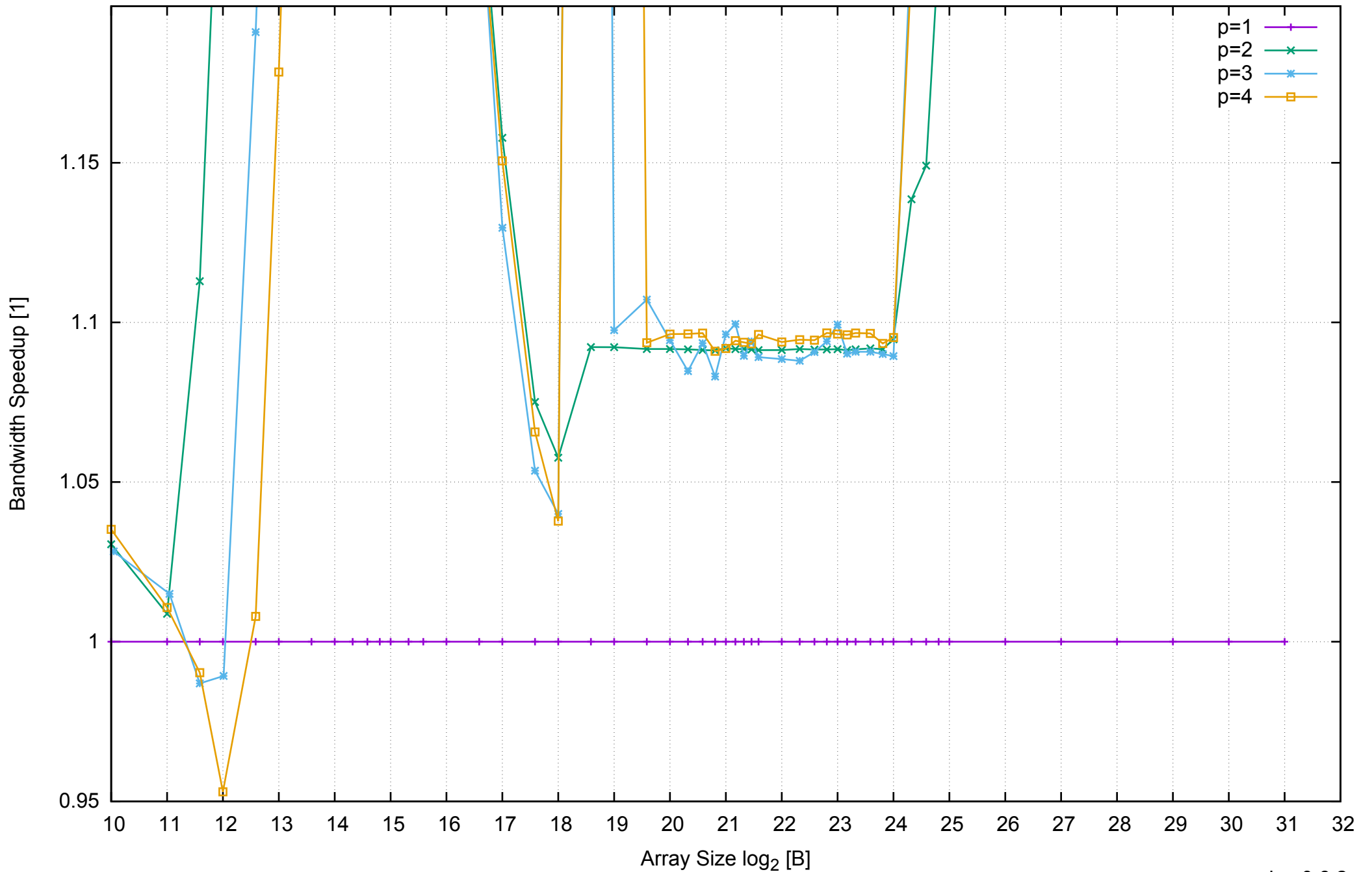


AWS c4.large - Intel Xeon E5-2666 v3 2.90 GHz 3.75GB - Parallel Memory Access Time - ScanRead256PtrSimpleLoop



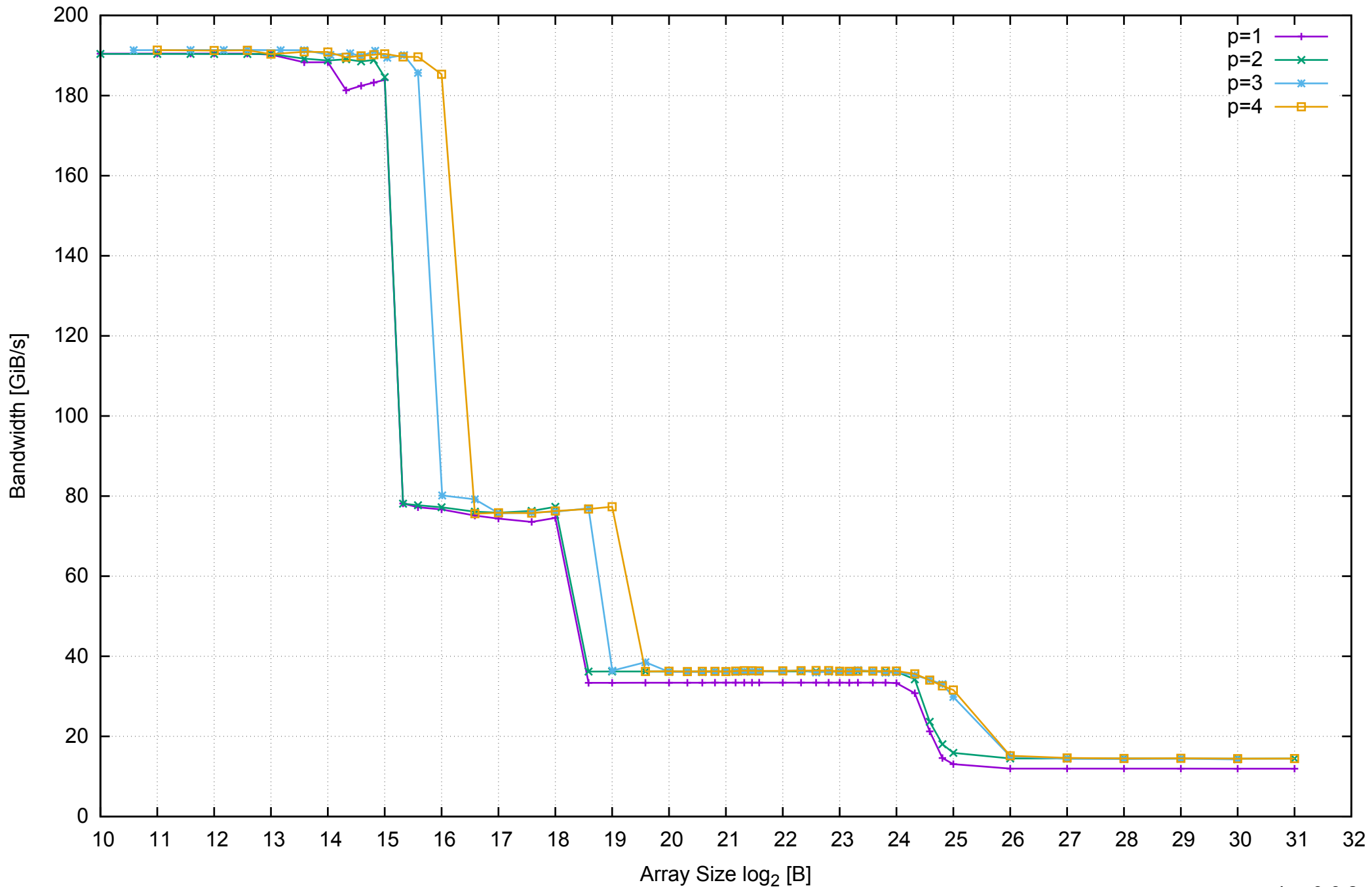
AWS c4.large - Intel Xeon E5-2666 v3 2.90 GHz 3.75GB - Speedup of Parallel Memory Bandwidth - ScanRead256PtrSimpleLoop



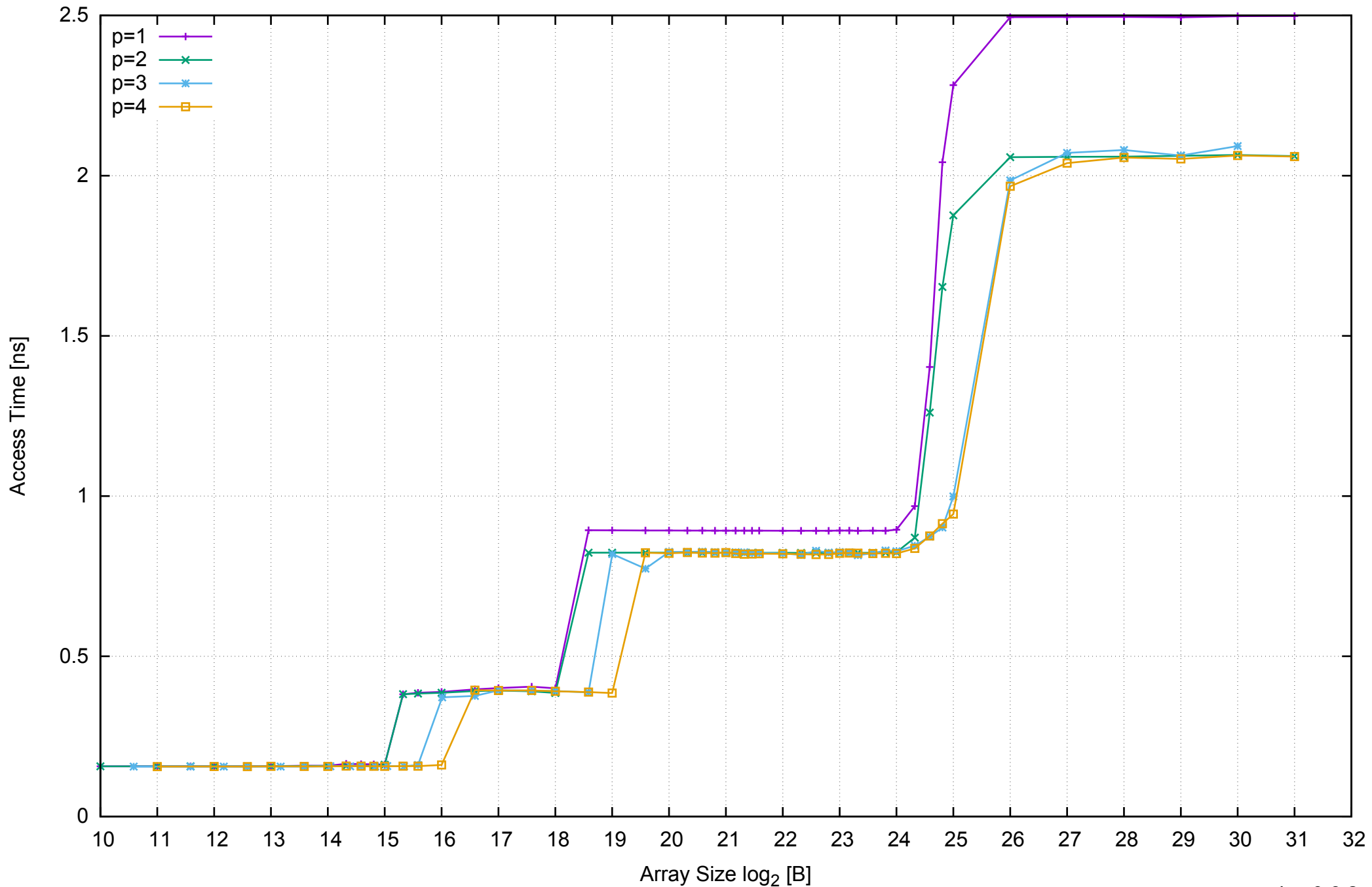




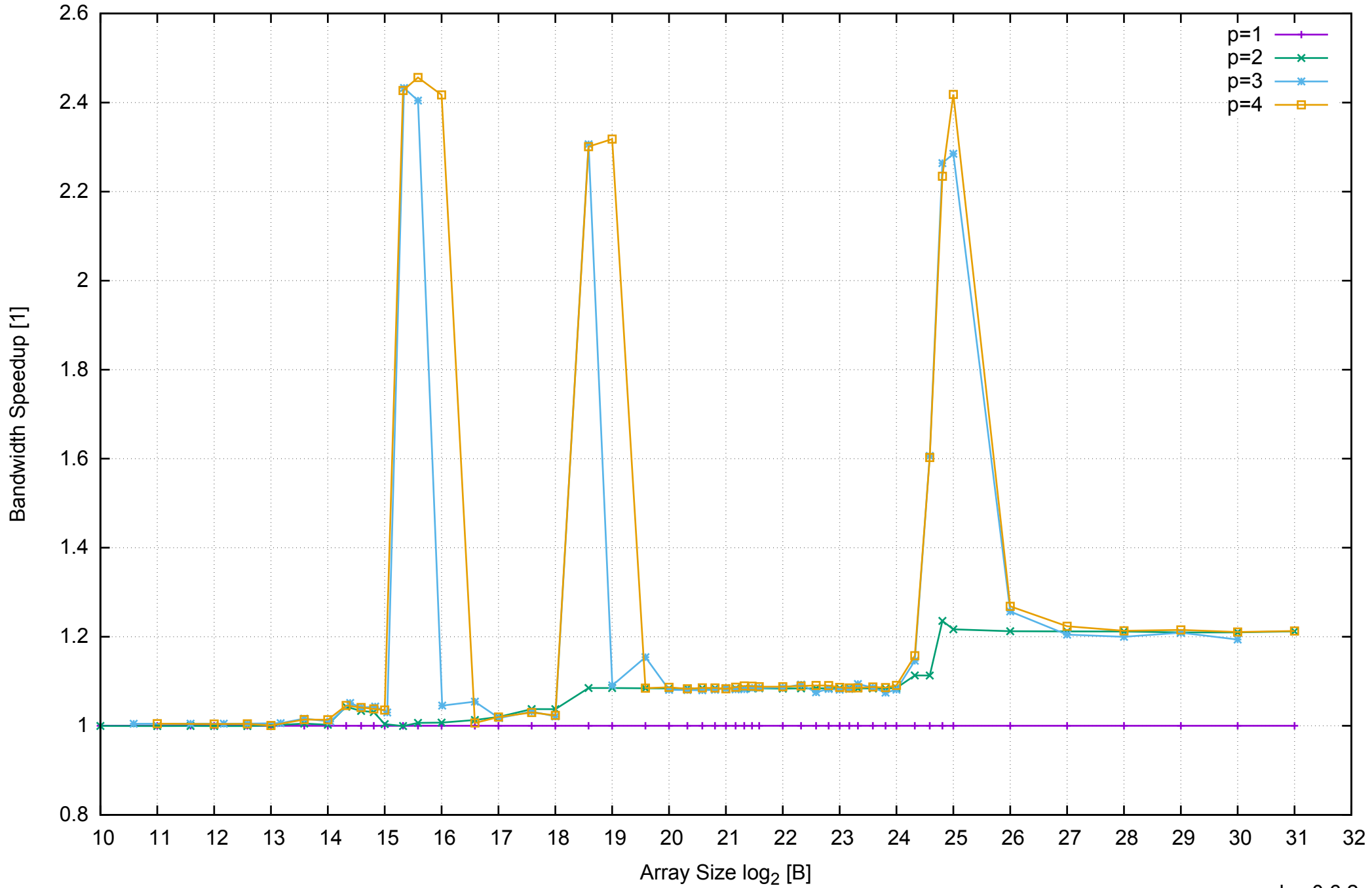
AWS c4.large - Intel Xeon E5-2666 v3 2.90 GHz 3.75GB - Parallel Memory Bandwidth - ScanRead256PtrUnrollLoop



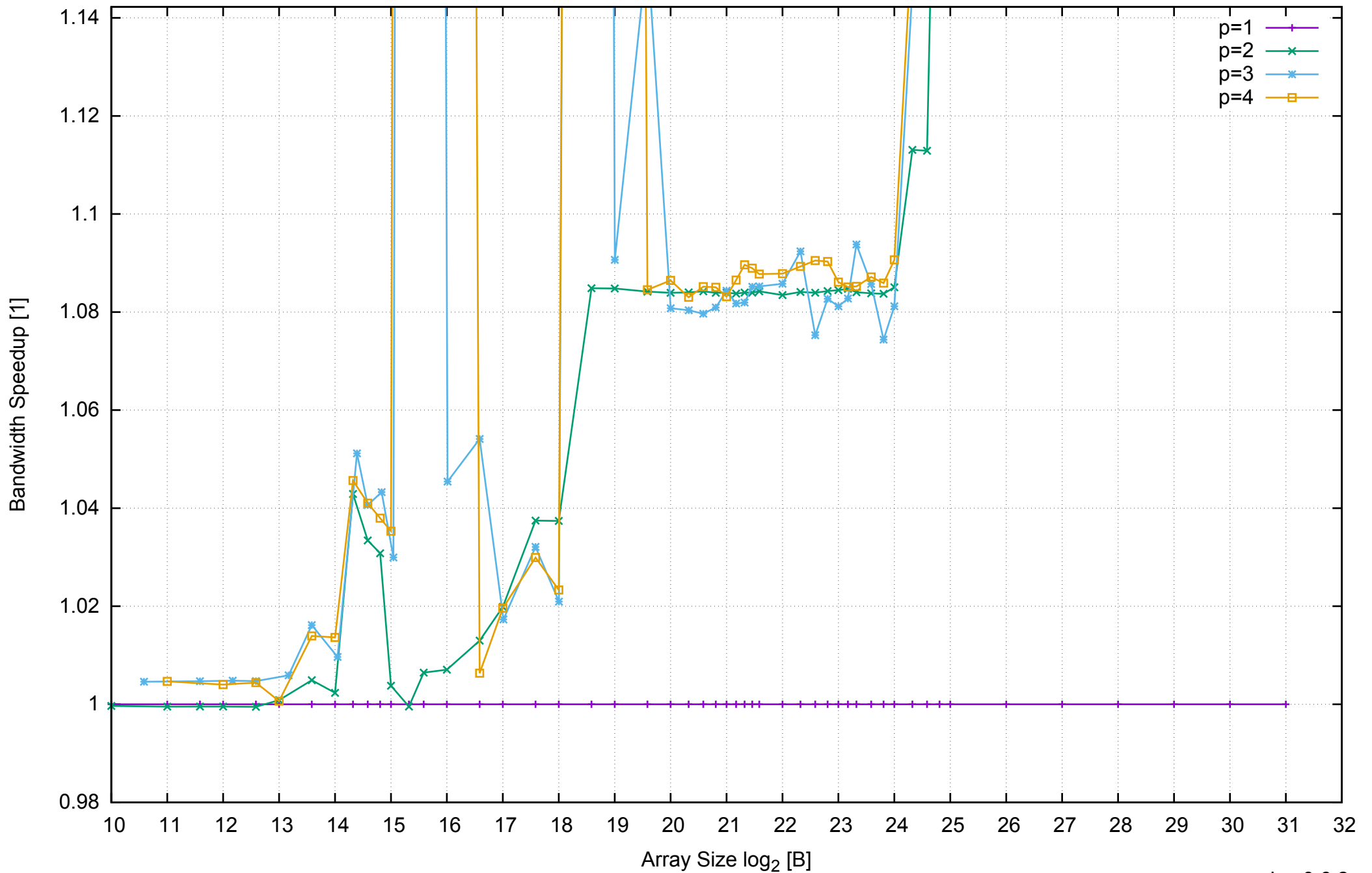
AWS c4.large - Intel Xeon E5-2666 v3 2.90 GHz 3.75GB - Parallel Memory Access Time - ScanRead256PtrUnrollLoop



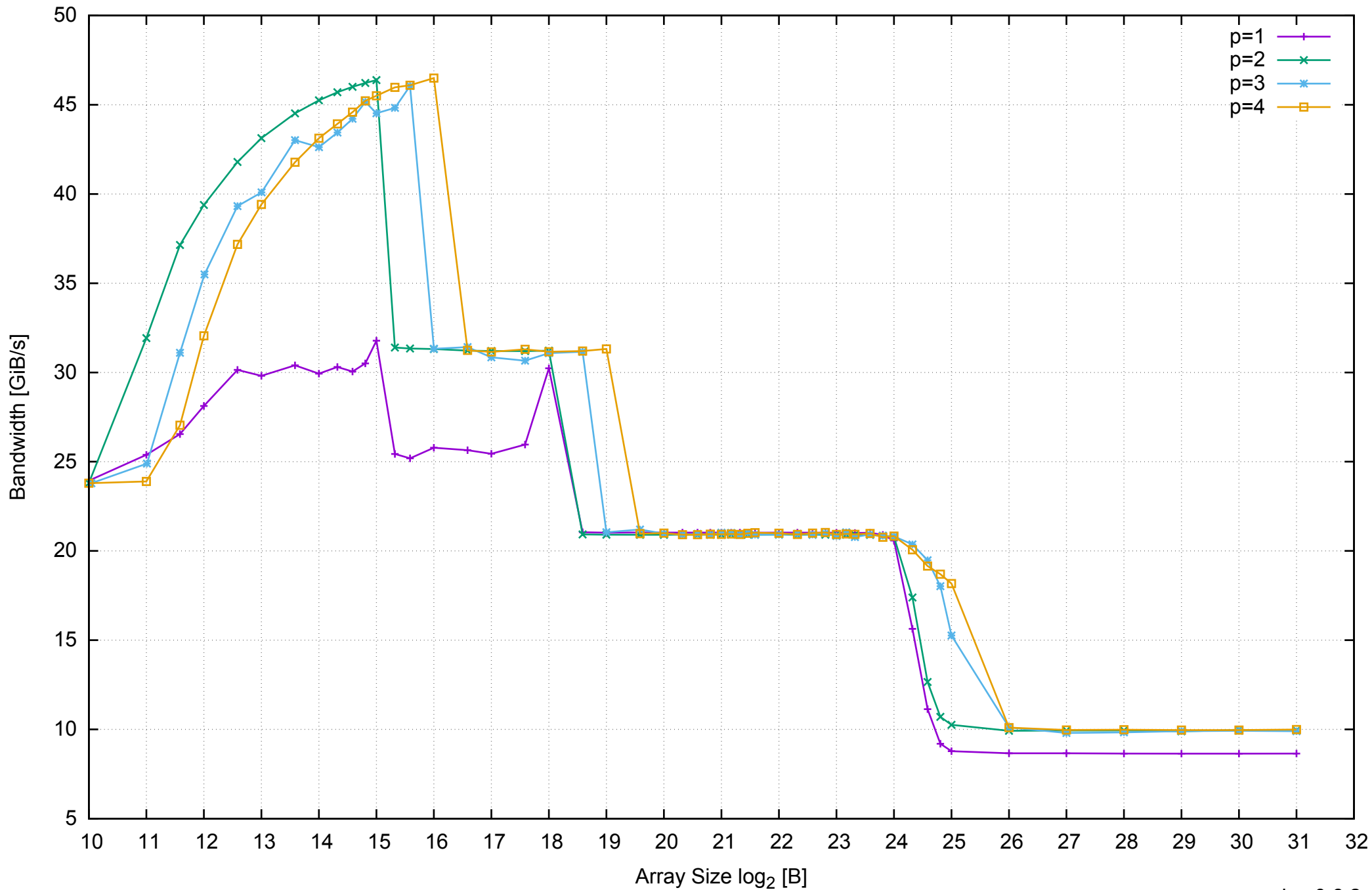
AWS c4.large - Intel Xeon E5-2666 v3 2.90 GHz 3.75GB - Speedup of Parallel Memory Bandwidth - ScanRead256PtrUnrollLoop



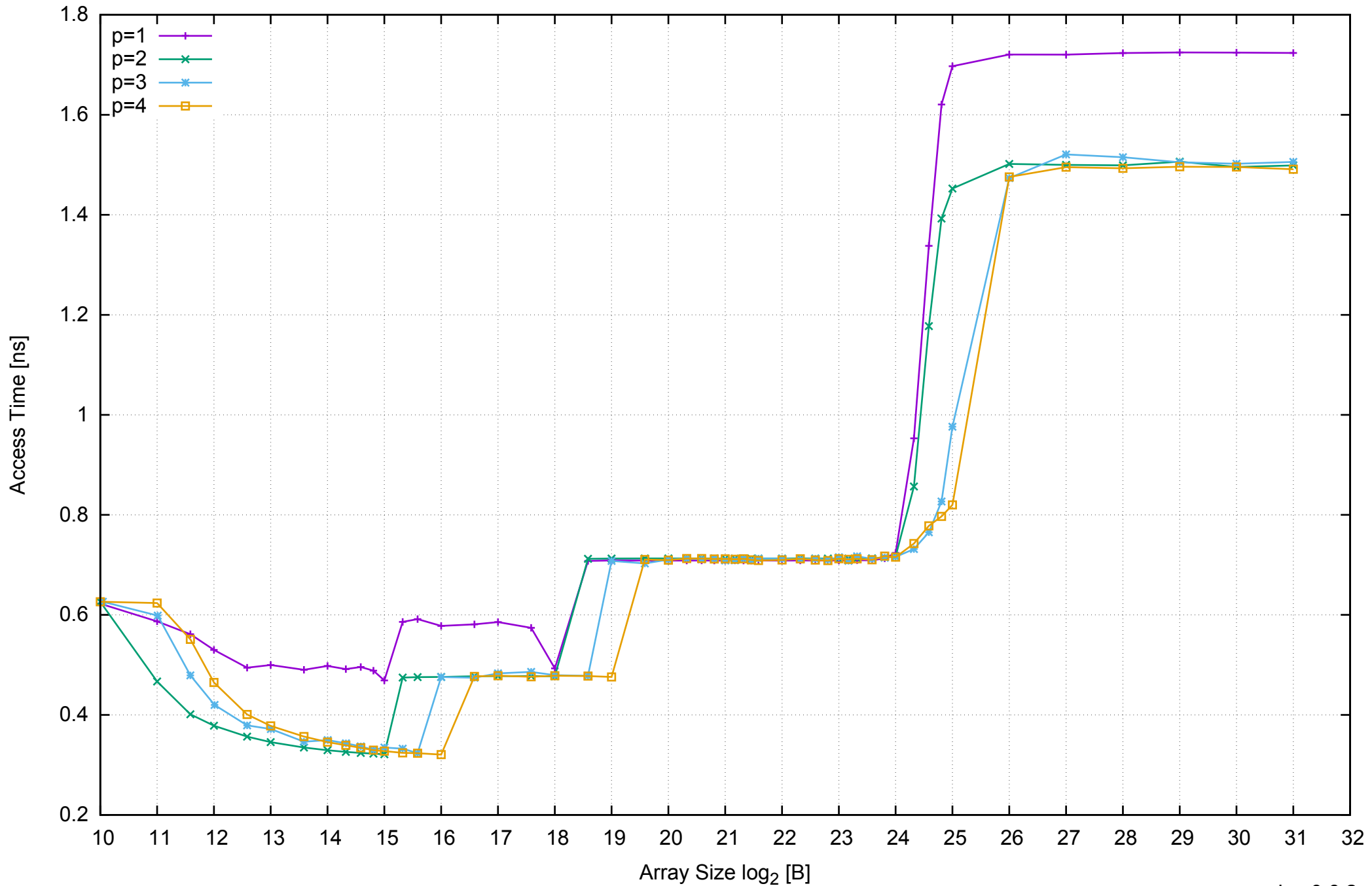
AWS c4.large - Intel Xeon E5-2666 v3 2.90 GHz 3.75GB - Speedup of Parallel Memory Bandwidth (enlarged) - ScanRead256PtrUnrollLoop



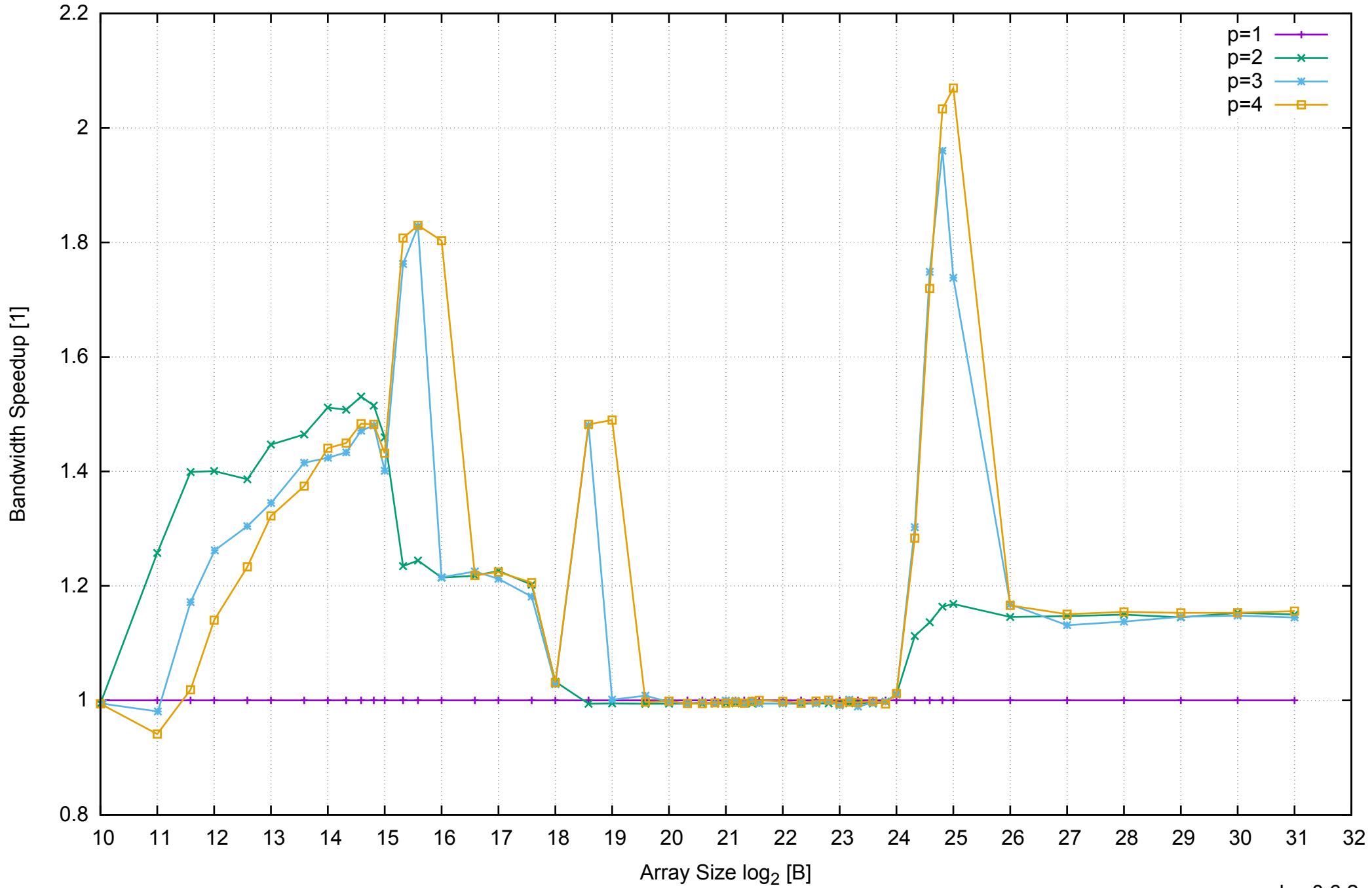
AWS c4.large - Intel Xeon E5-2666 v3 2.90 GHz 3.75GB - Parallel Memory Bandwidth - ScanWrite128PtrSimpleLoop

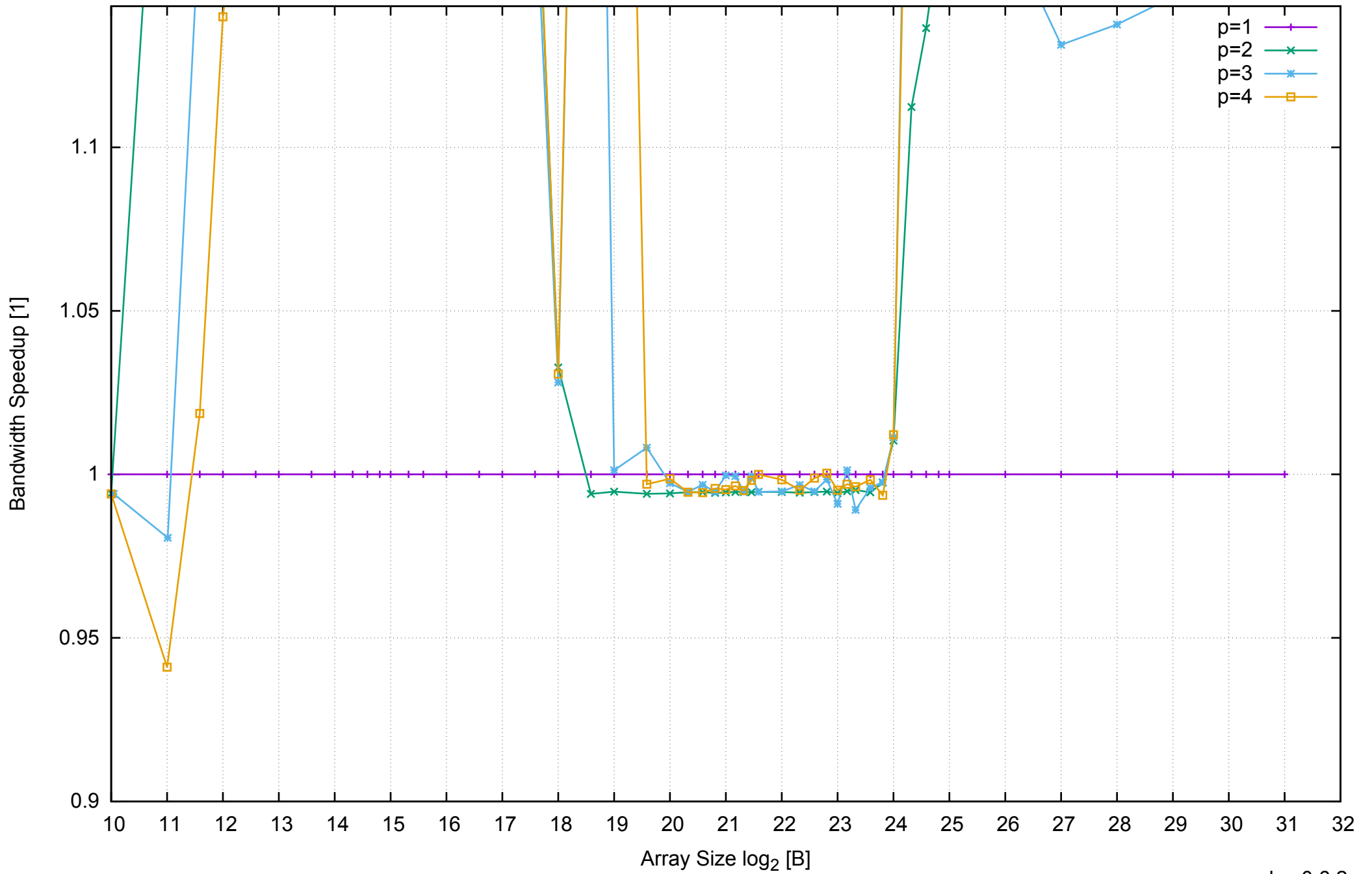


AWS c4.large - Intel Xeon E5-2666 v3 2.90 GHz 3.75GB - Parallel Memory Access Time - ScanWrite128PtrSimpleLoop



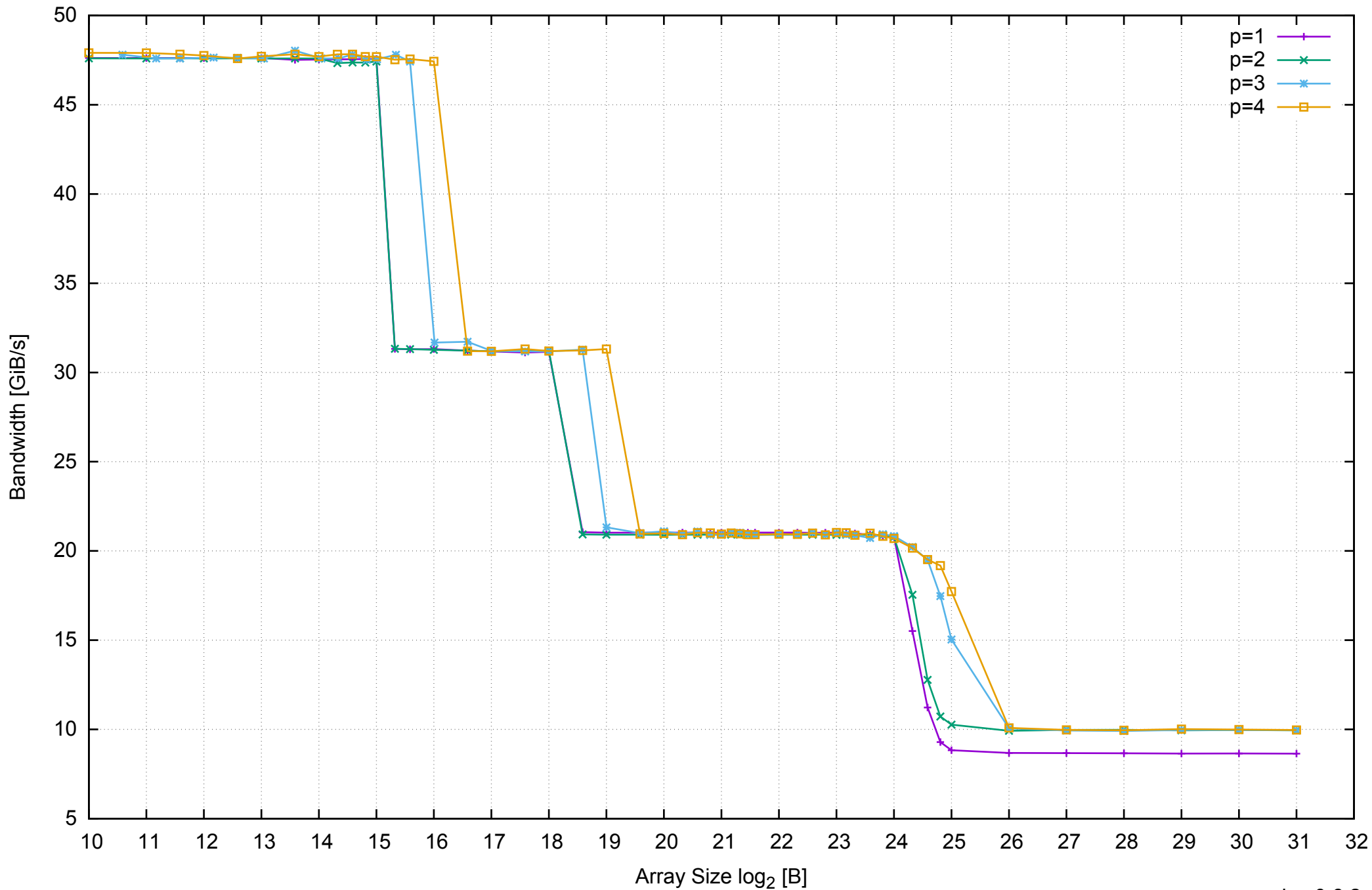
AWS c4.large - Intel Xeon E5-2666 v3 2.90 GHz 3.75GB - Speedup of Parallel Memory Bandwidth - ScanWrite128PtrSimpleLoop



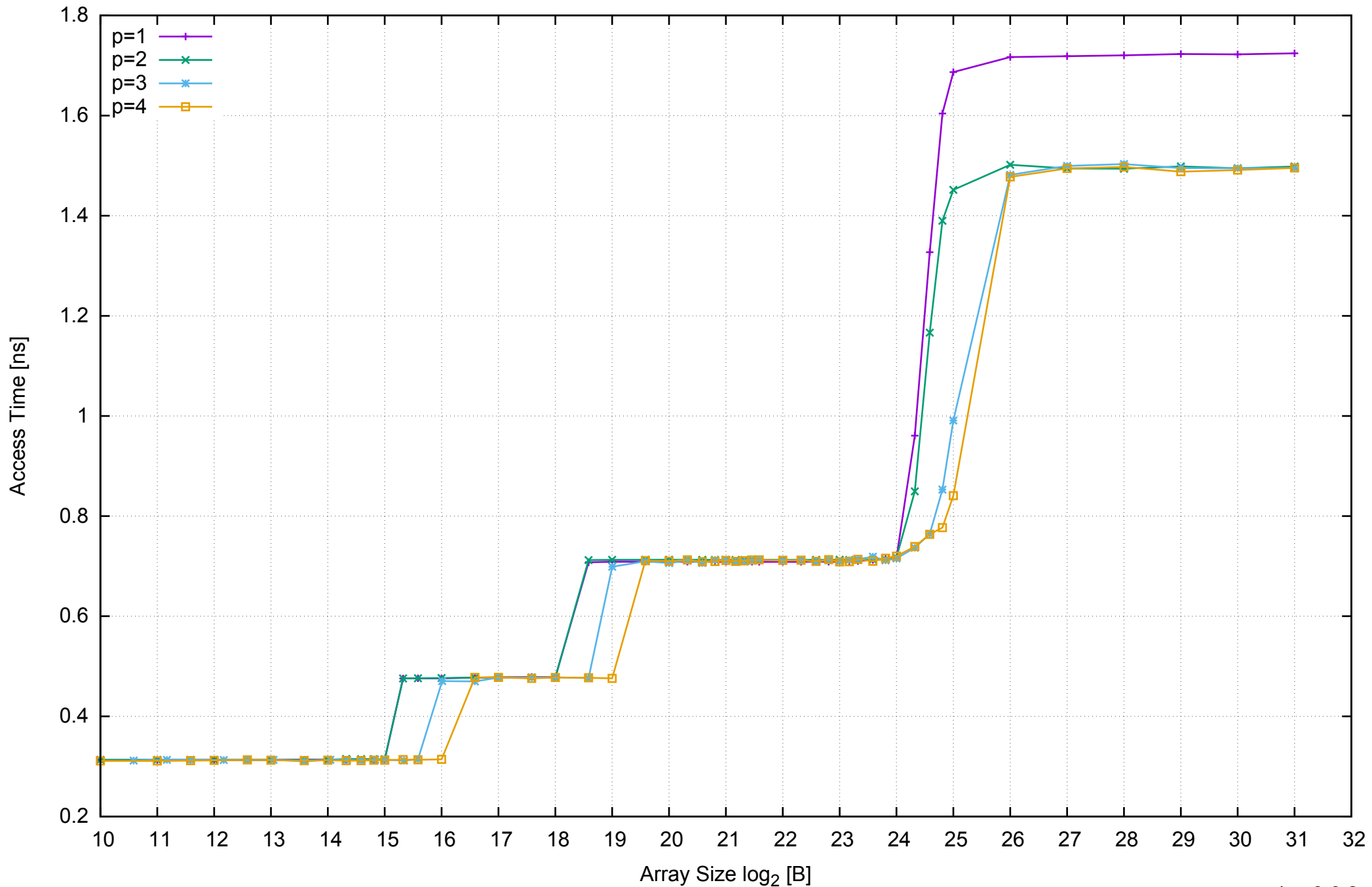




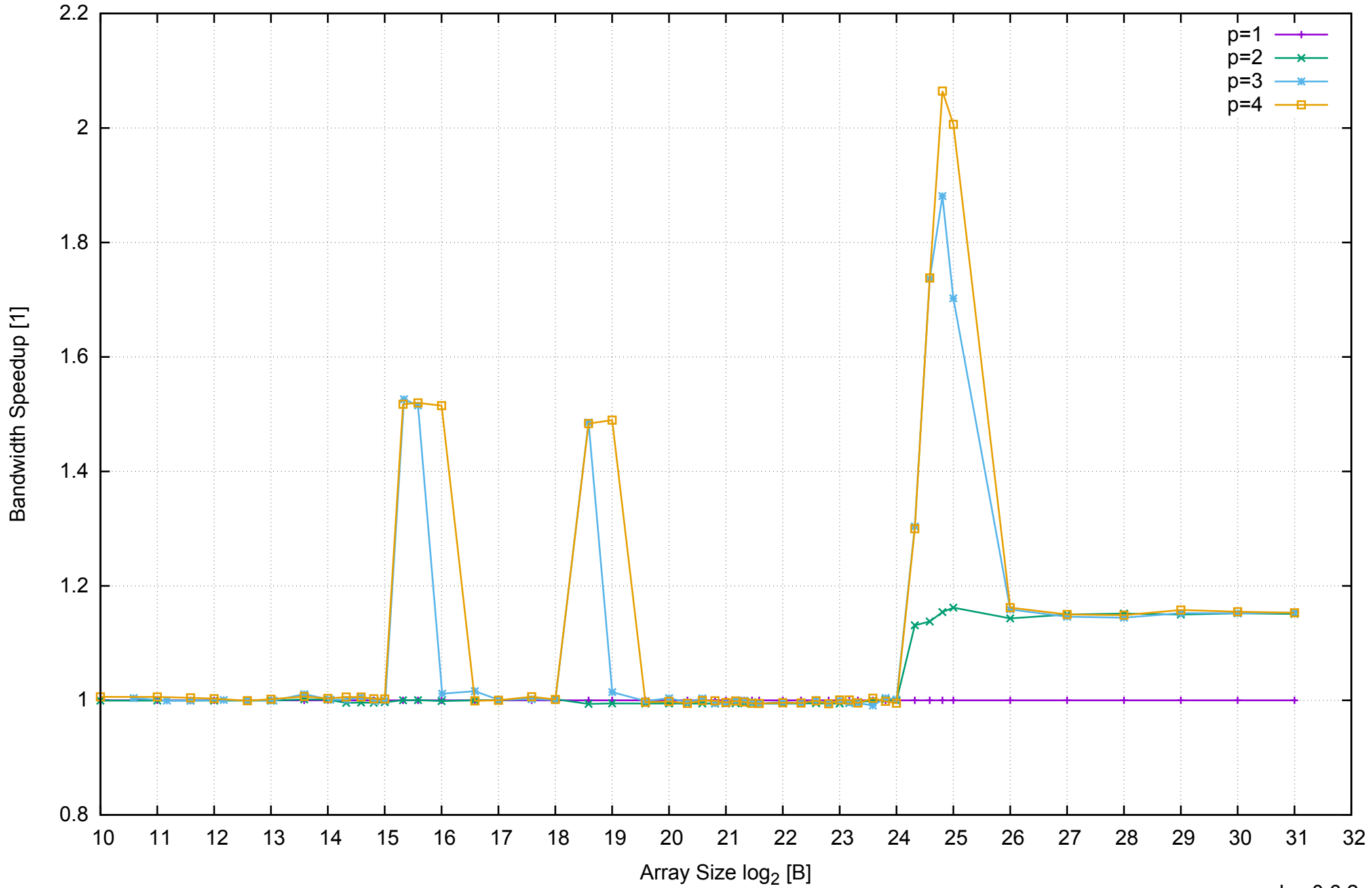
AWS c4.large - Intel Xeon E5-2666 v3 2.90 GHz 3.75GB - Parallel Memory Bandwidth - ScanWrite128PtrUnrollLoop

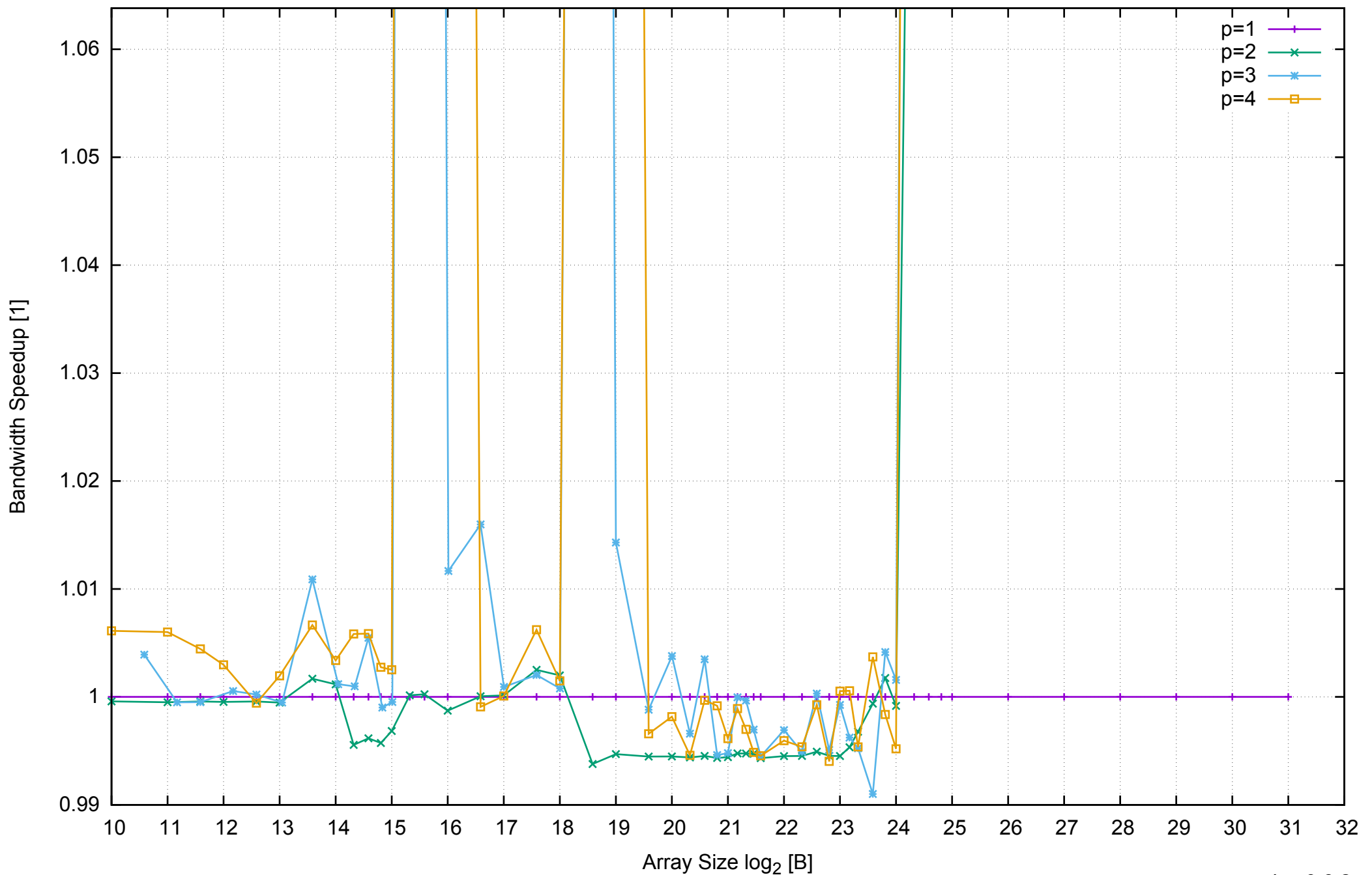


AWS c4.large - Intel Xeon E5-2666 v3 2.90 GHz 3.75GB - Parallel Memory Access Time - ScanWrite128PtrUnrollLoop

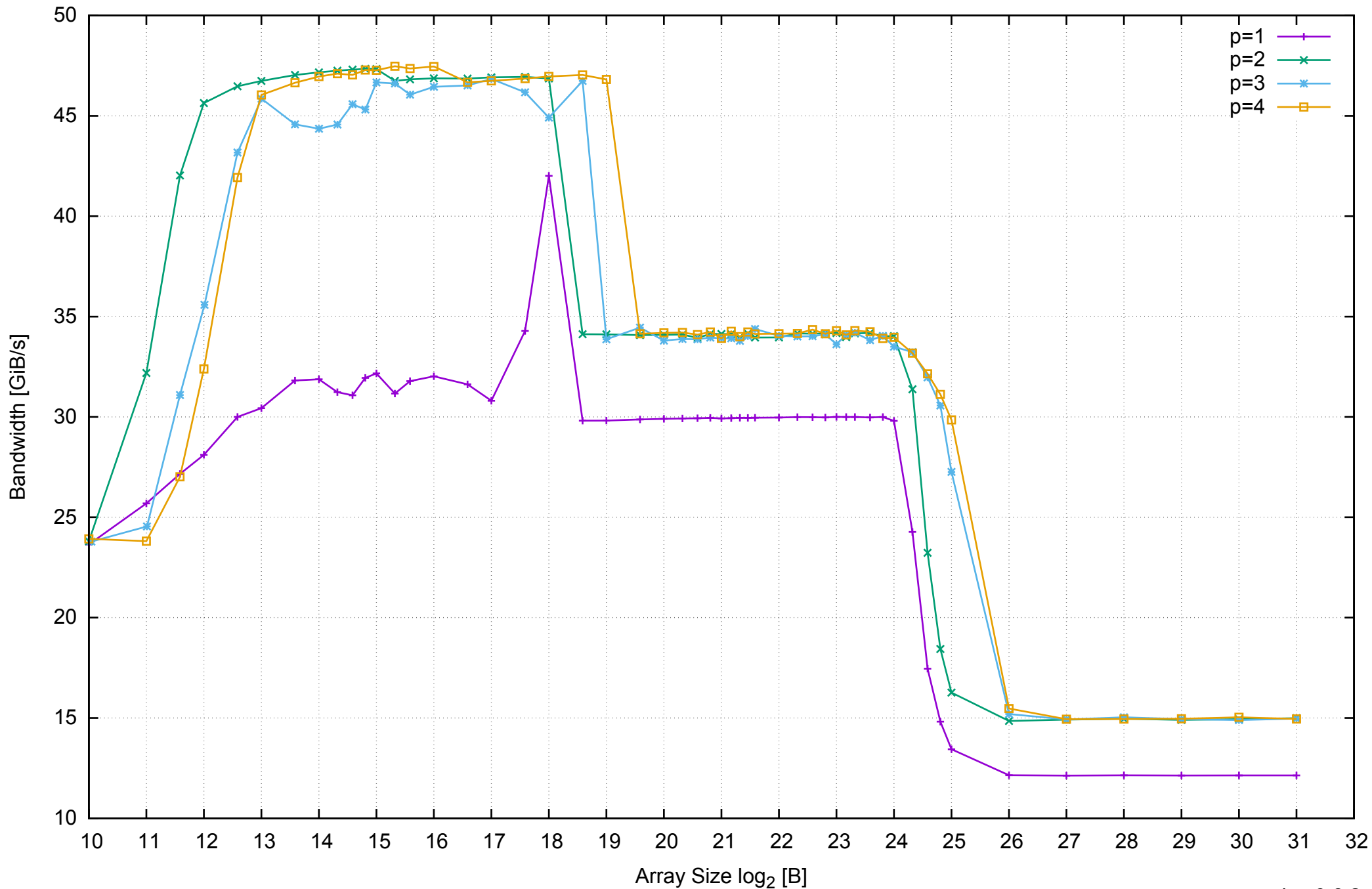


AWS c4.large - Intel Xeon E5-2666 v3 2.90 GHz 3.75GB - Speedup of Parallel Memory Bandwidth - ScanWrite128PtrUnrollLoop

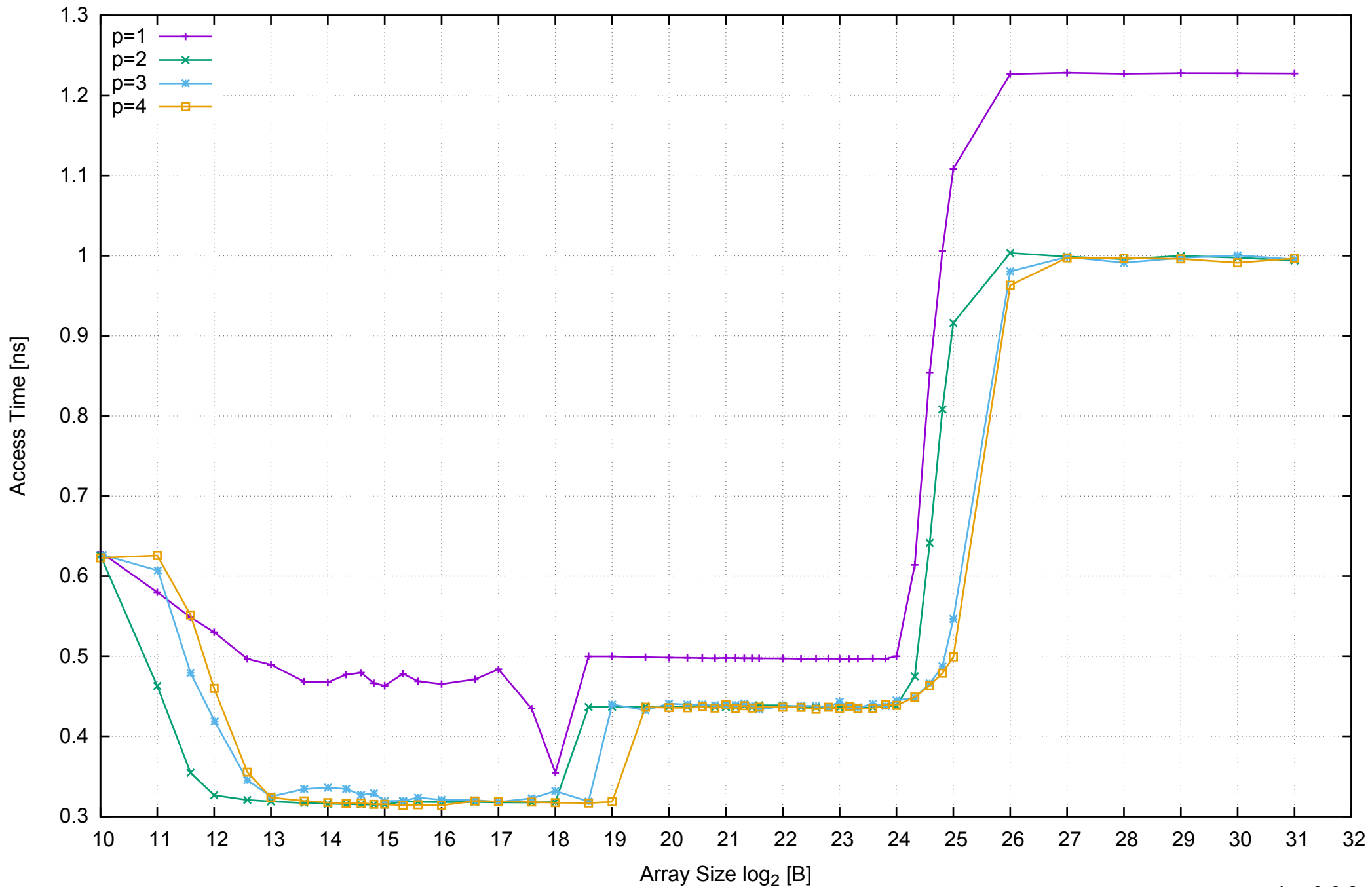




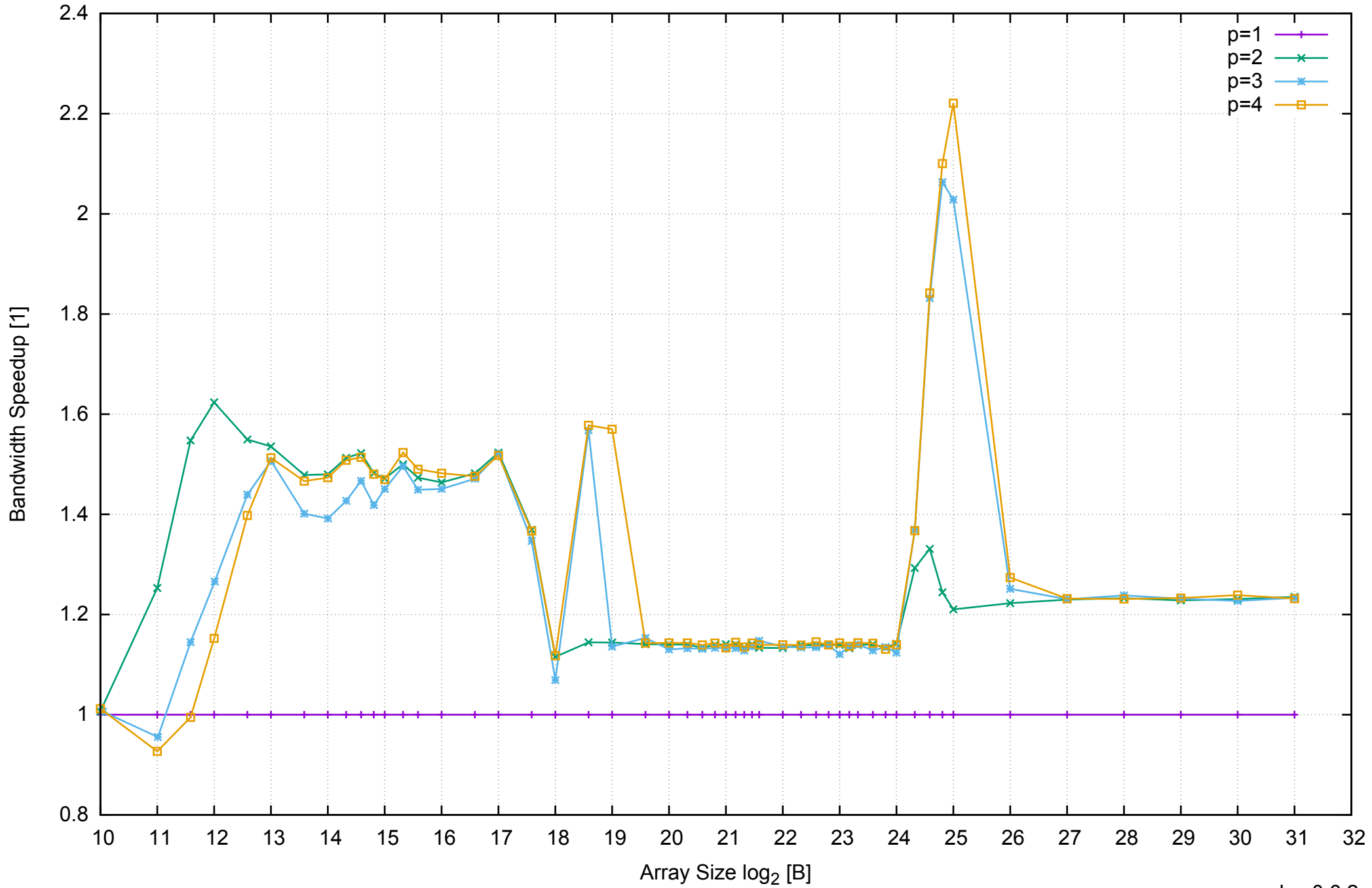
AWS c4.large - Intel Xeon E5-2666 v3 2.90 GHz 3.75GB - Parallel Memory Bandwidth - ScanRead128PtrSimpleLoop

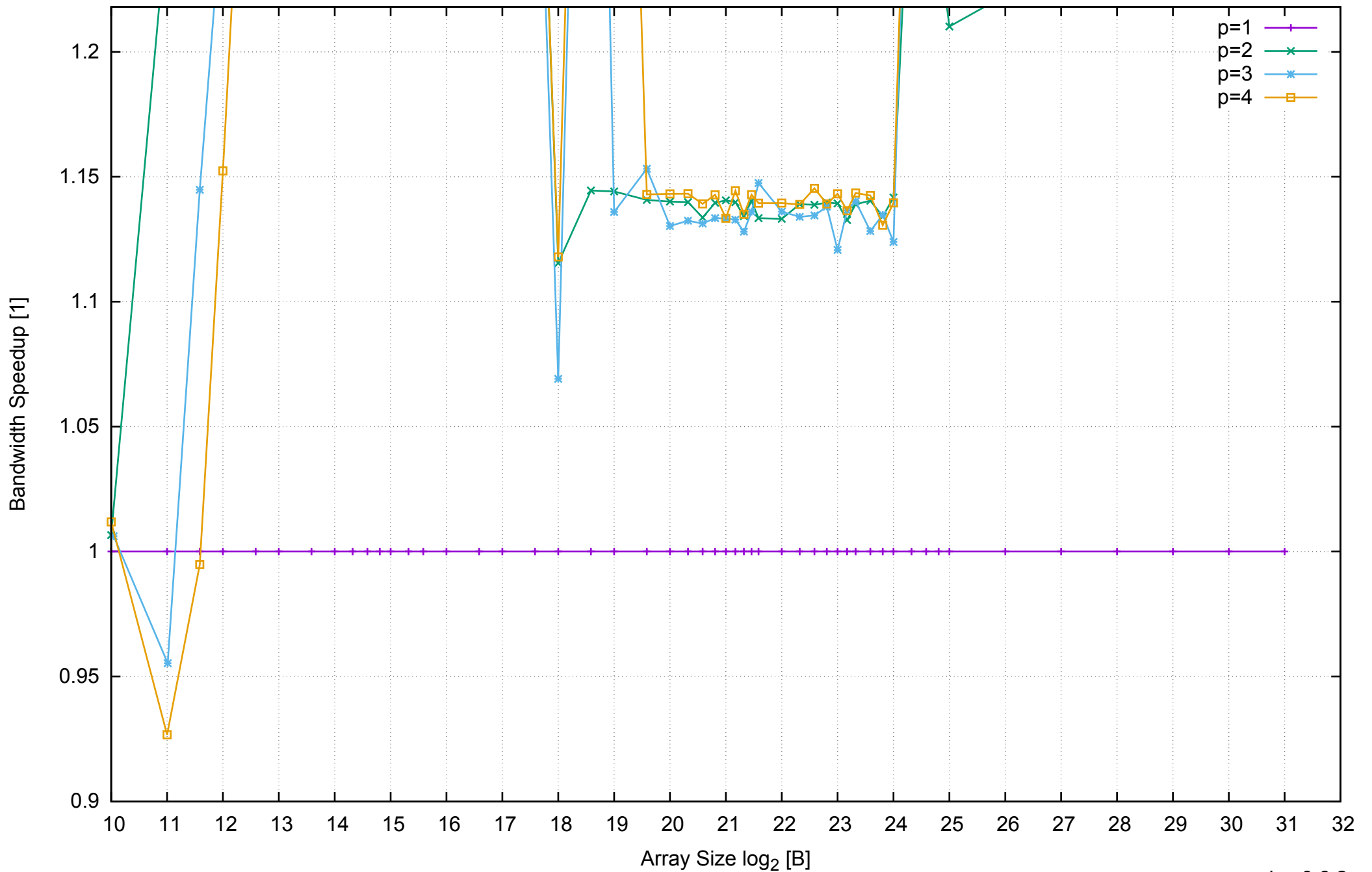


AWS c4.large - Intel Xeon E5-2666 v3 2.90 GHz 3.75GB - Parallel Memory Access Time - ScanRead128PtrSimpleLoop



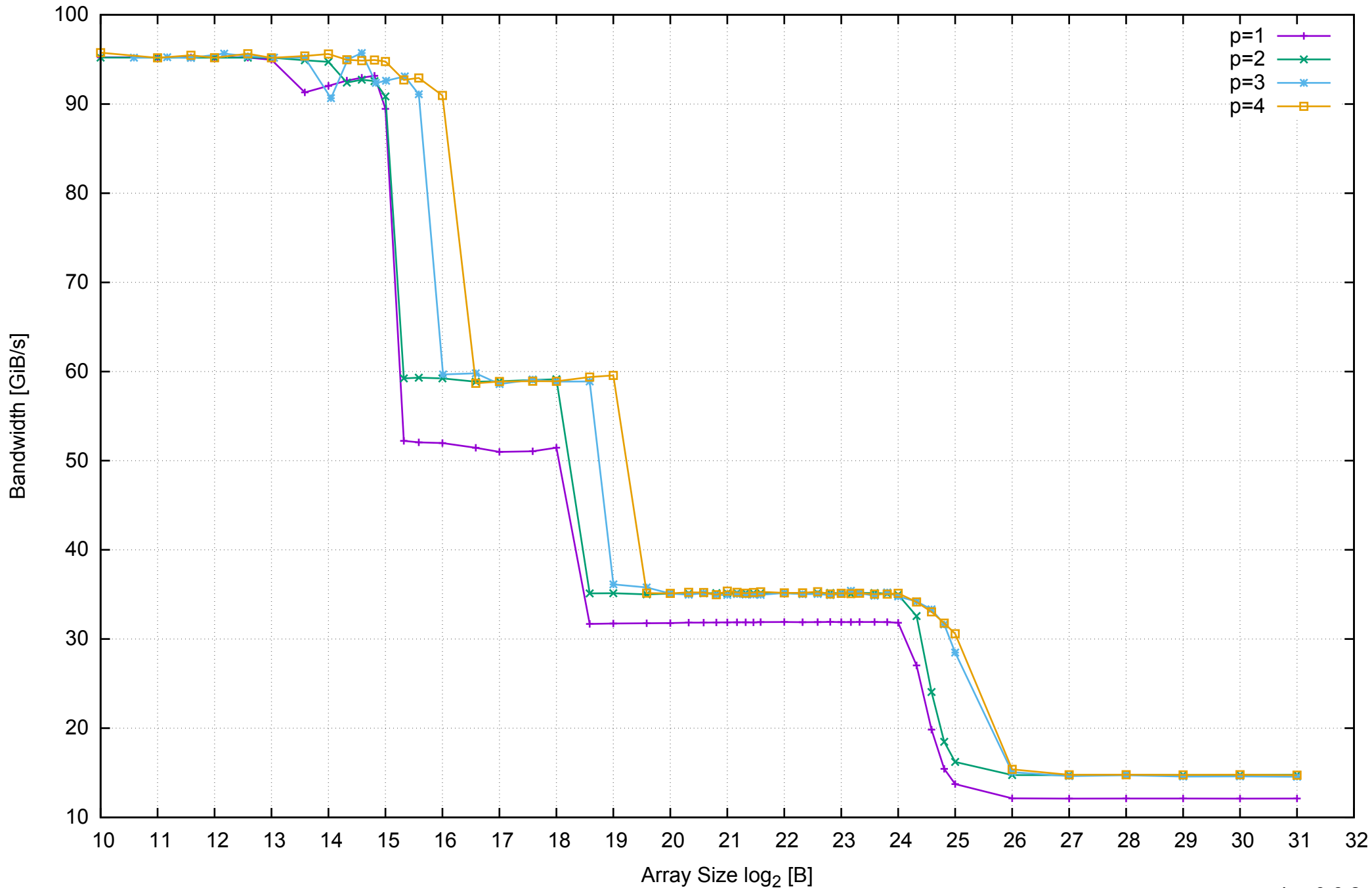
AWS c4.large - Intel Xeon E5-2666 v3 2.90 GHz 3.75GB - Speedup of Parallel Memory Bandwidth - ScanRead128PtrSimpleLoop



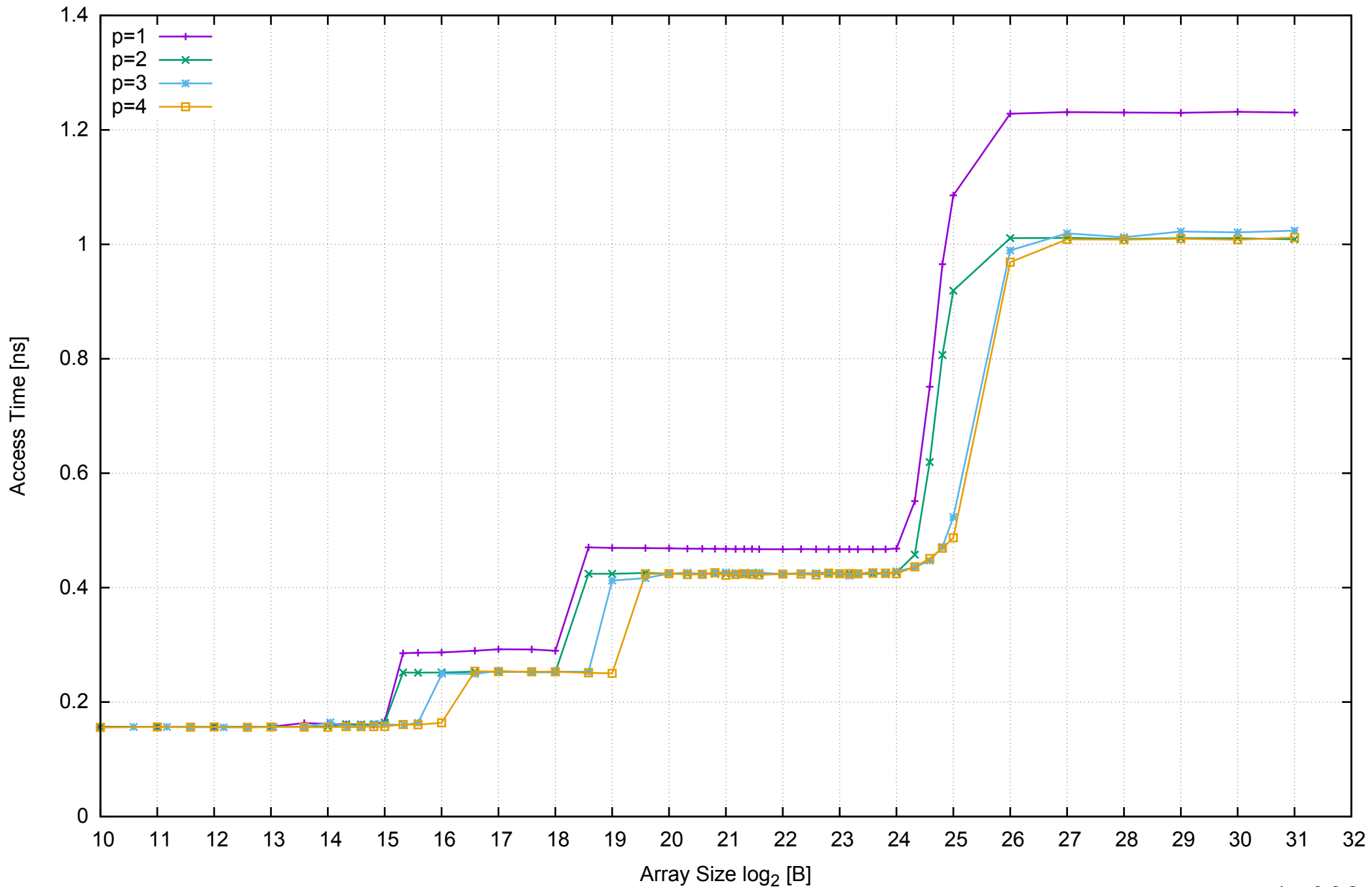




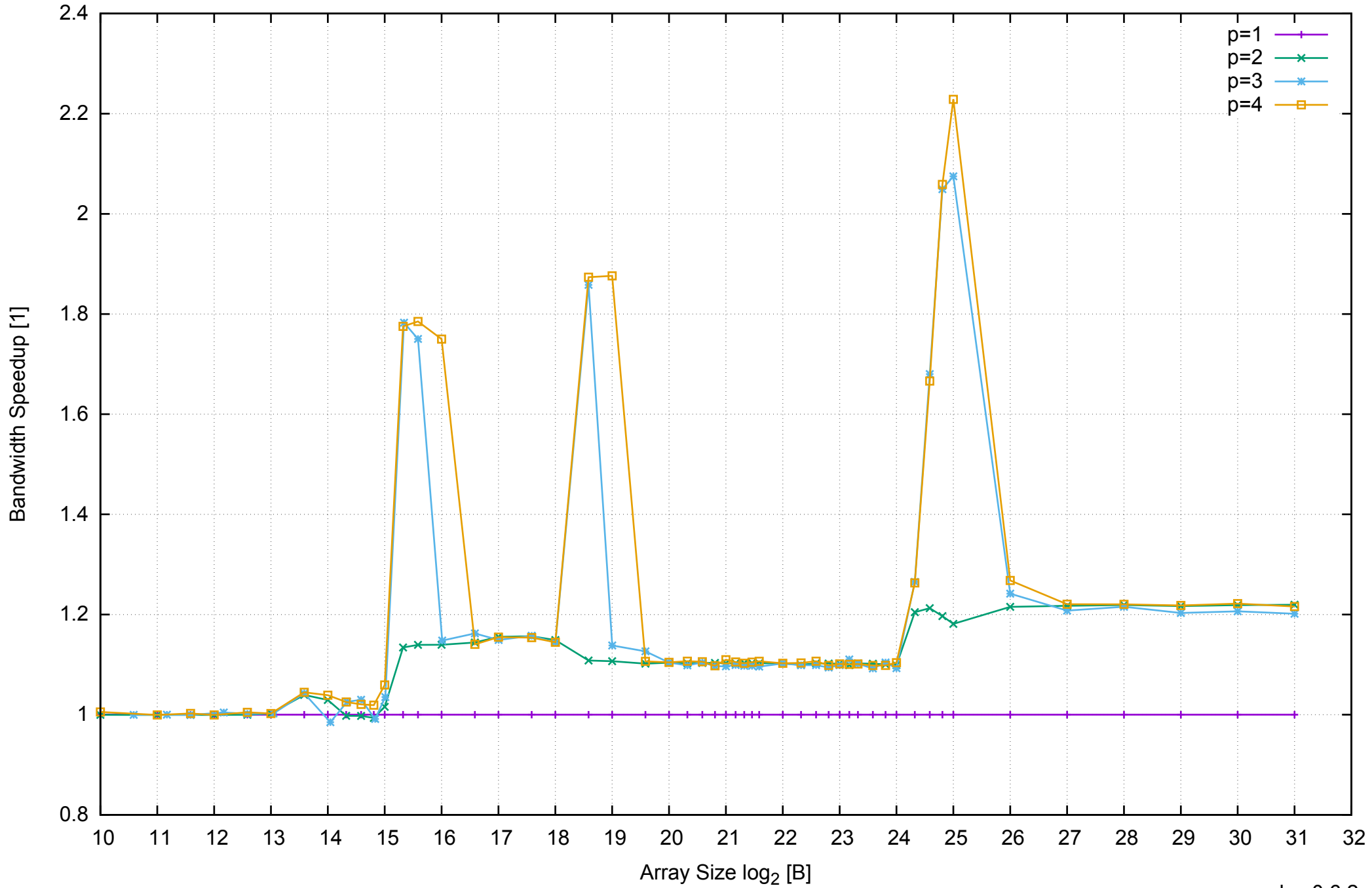
AWS c4.large - Intel Xeon E5-2666 v3 2.90 GHz 3.75GB - Parallel Memory Bandwidth - ScanRead128PtrUnrollLoop

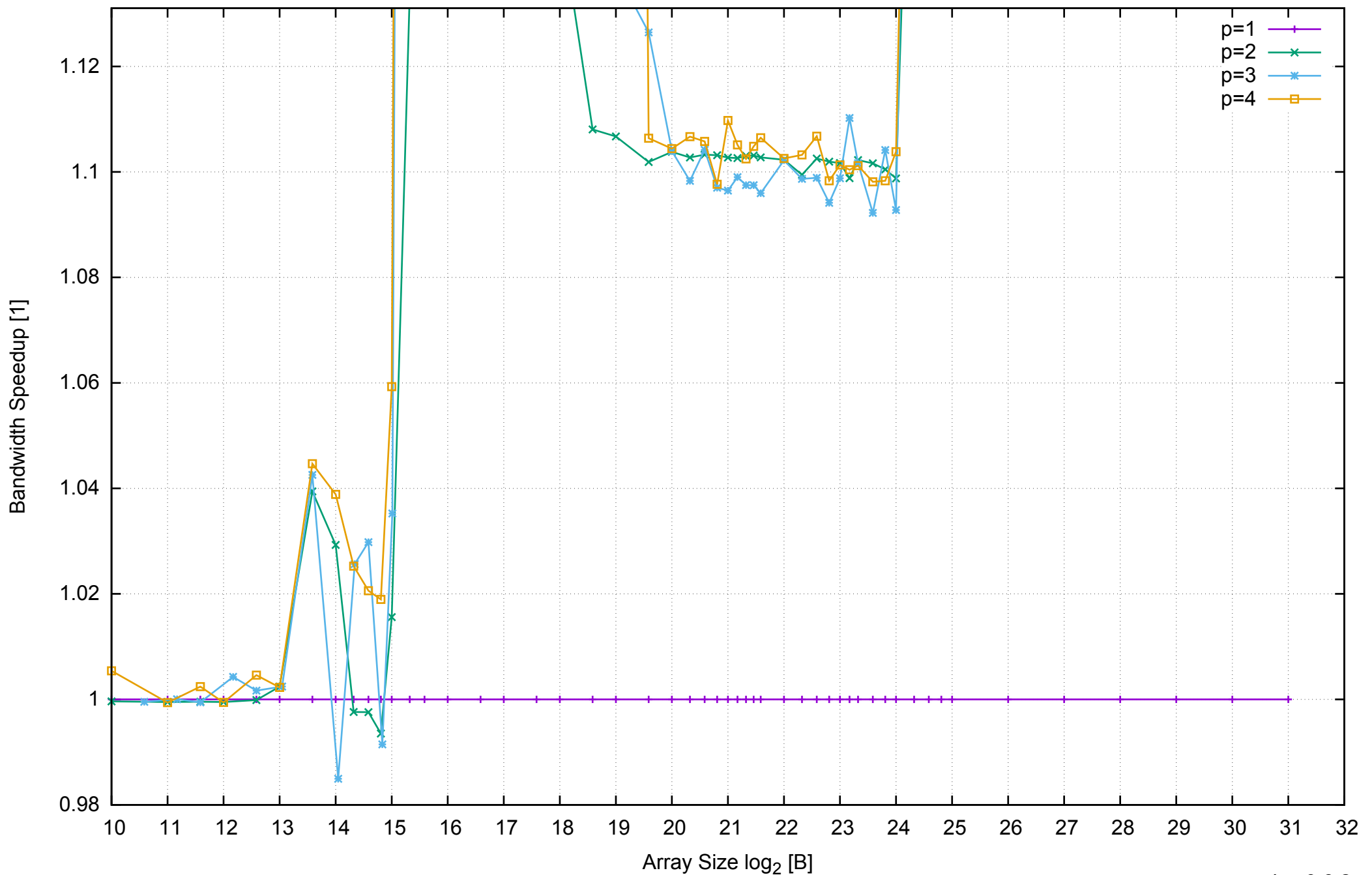


AWS c4.large - Intel Xeon E5-2666 v3 2.90 GHz 3.75GB - Parallel Memory Access Time - ScanRead128PtrUnrollLoop

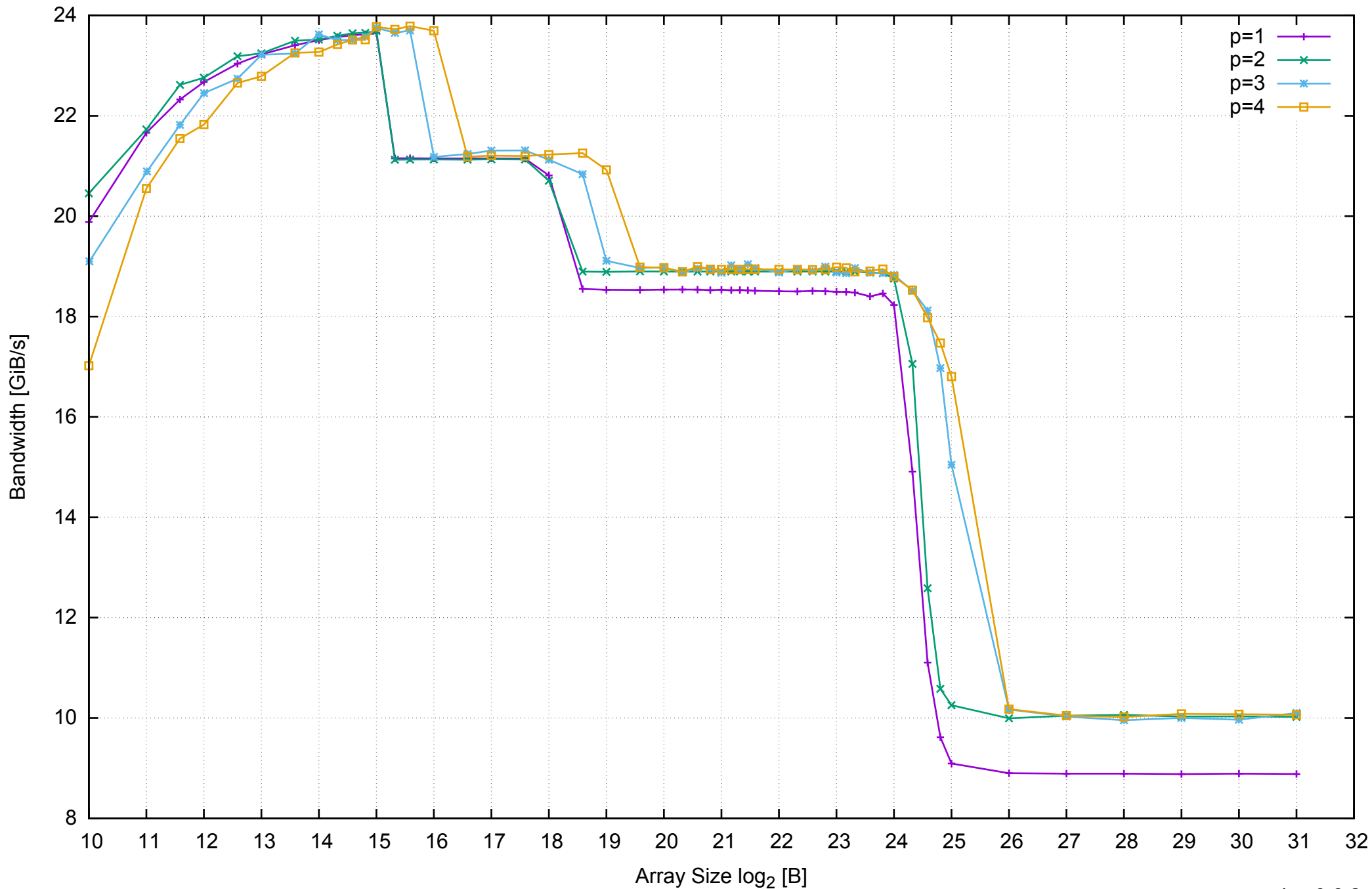


AWS c4.large - Intel Xeon E5-2666 v3 2.90 GHz 3.75GB - Speedup of Parallel Memory Bandwidth - ScanRead128PtrUnrollLoop

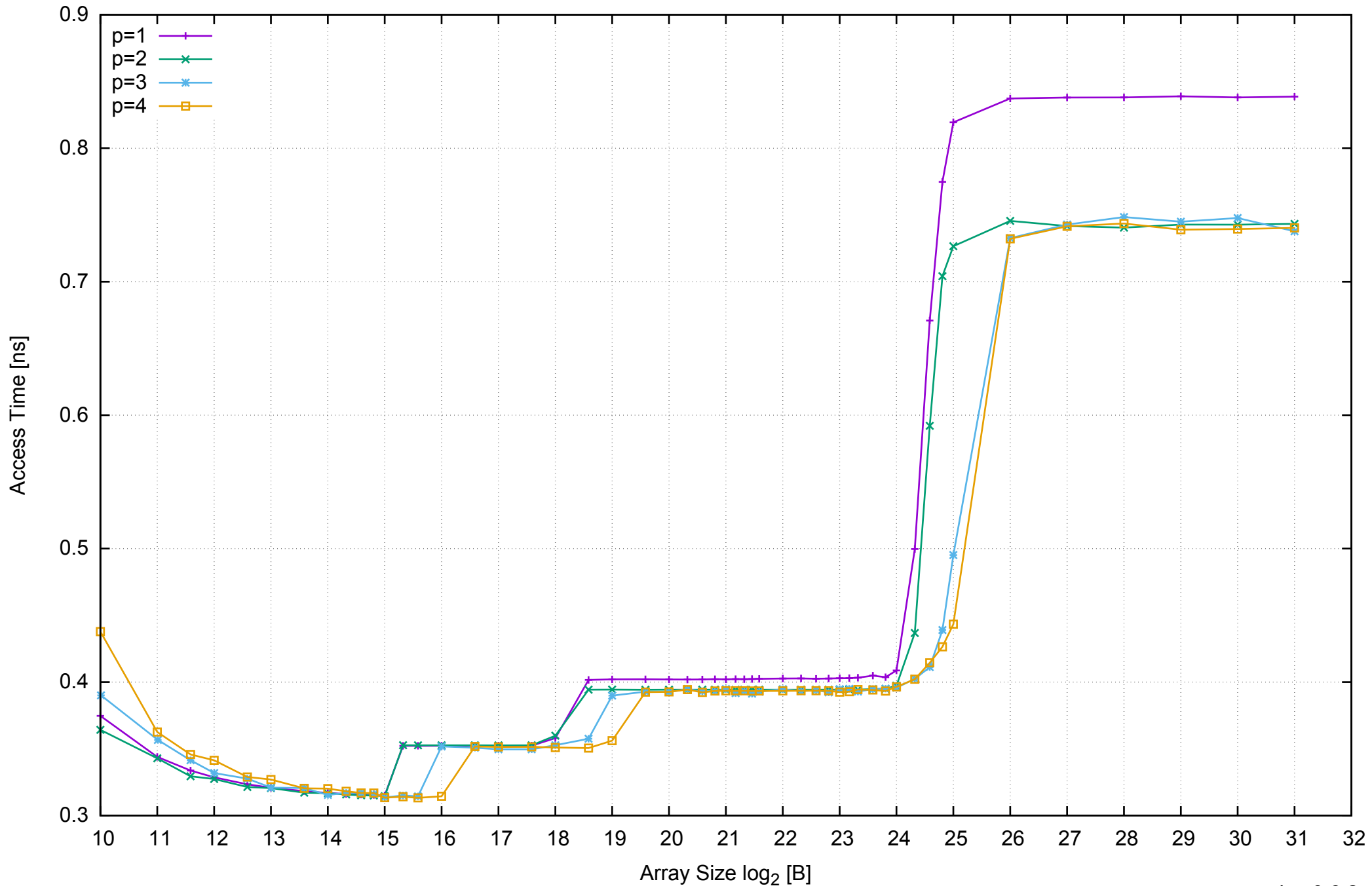




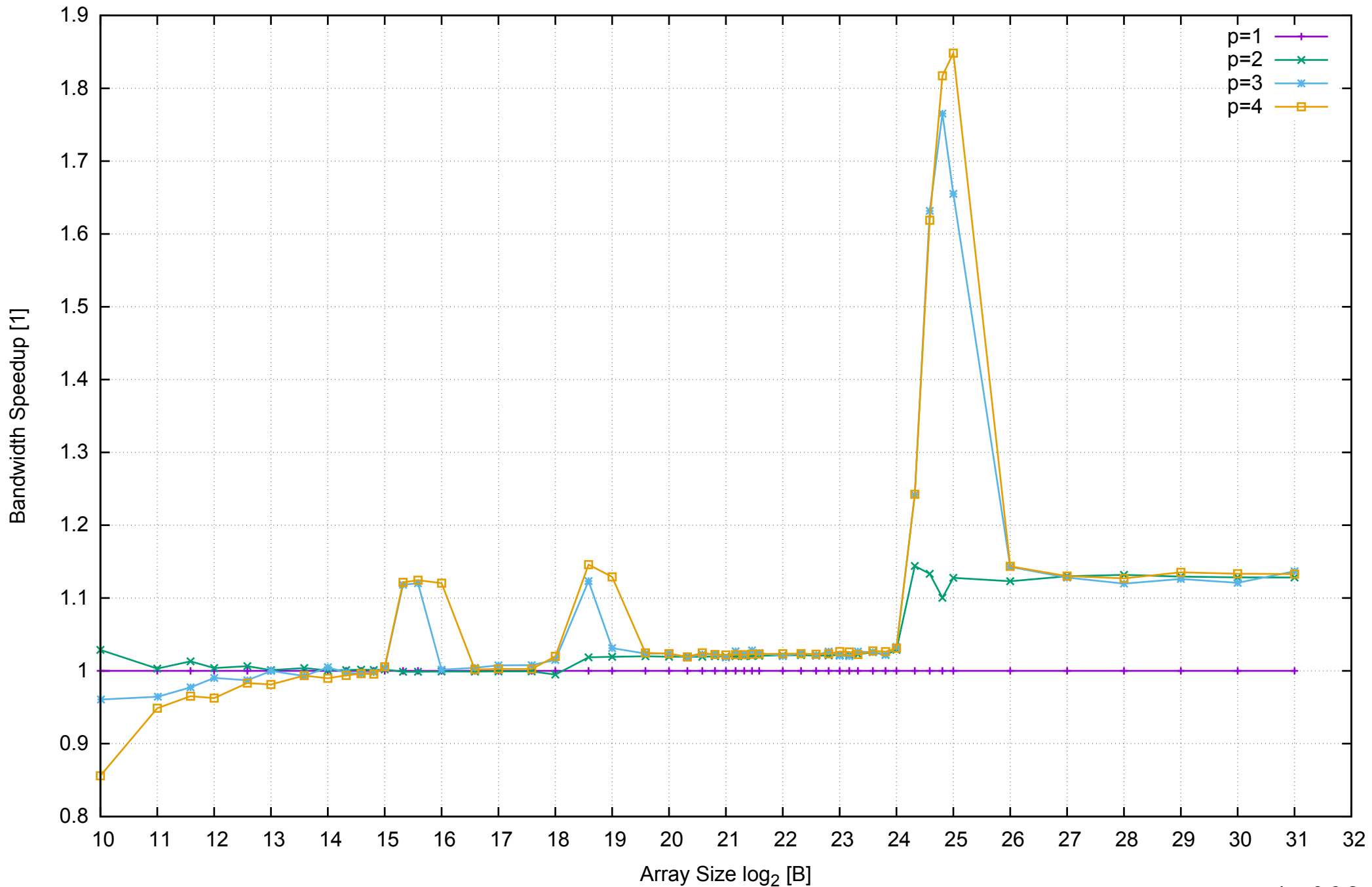
AWS c4.large - Intel Xeon E5-2666 v3 2.90 GHz 3.75GB - Parallel Memory Bandwidth - ScanWrite64PtrSimpleLoop



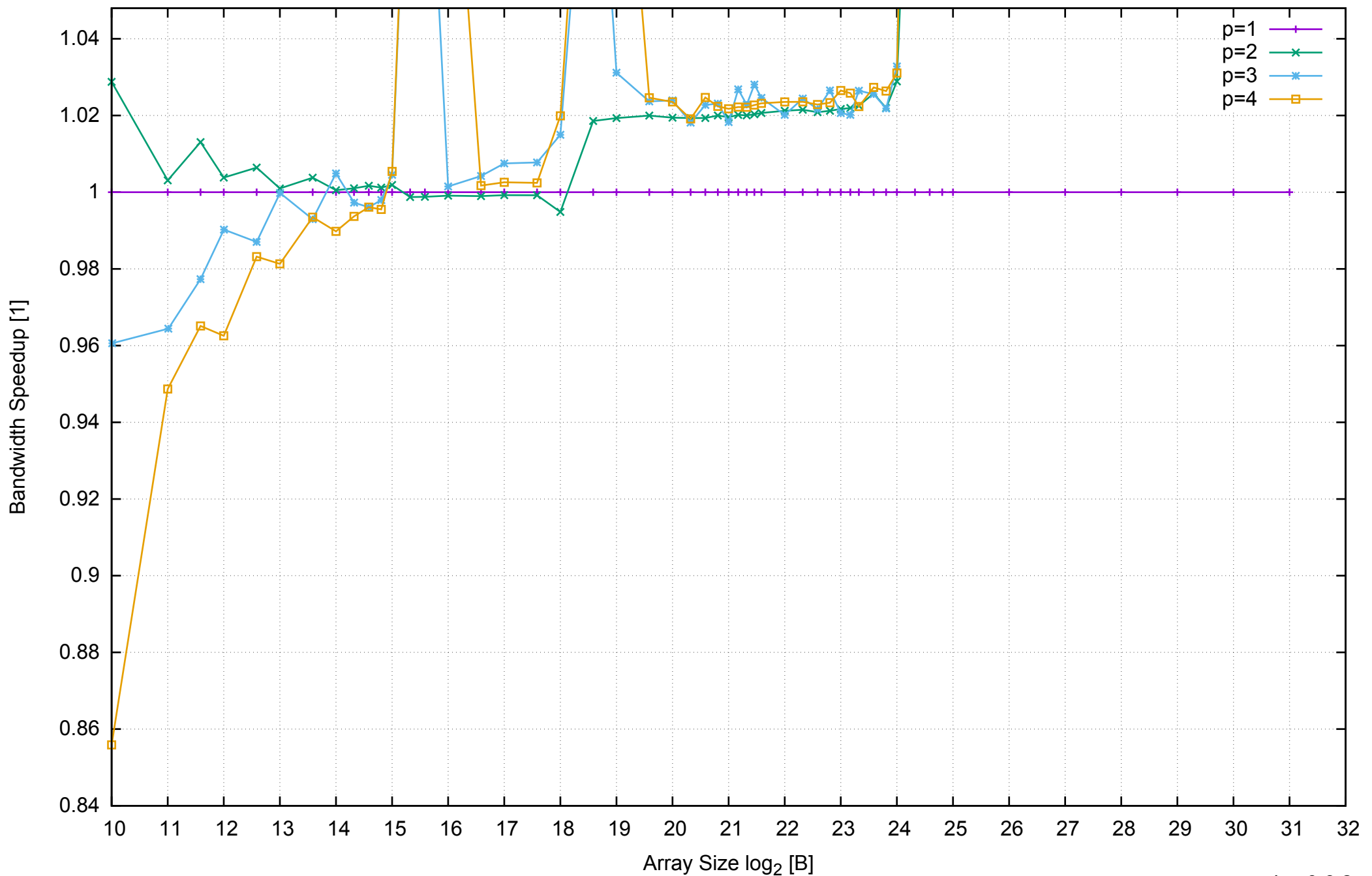
AWS c4.large - Intel Xeon E5-2666 v3 2.90 GHz 3.75GB - Parallel Memory Access Time - ScanWrite64PtrSimpleLoop



AWS c4.large - Intel Xeon E5-2666 v3 2.90 GHz 3.75GB - Speedup of Parallel Memory Bandwidth - ScanWrite64PtrSimpleLoop

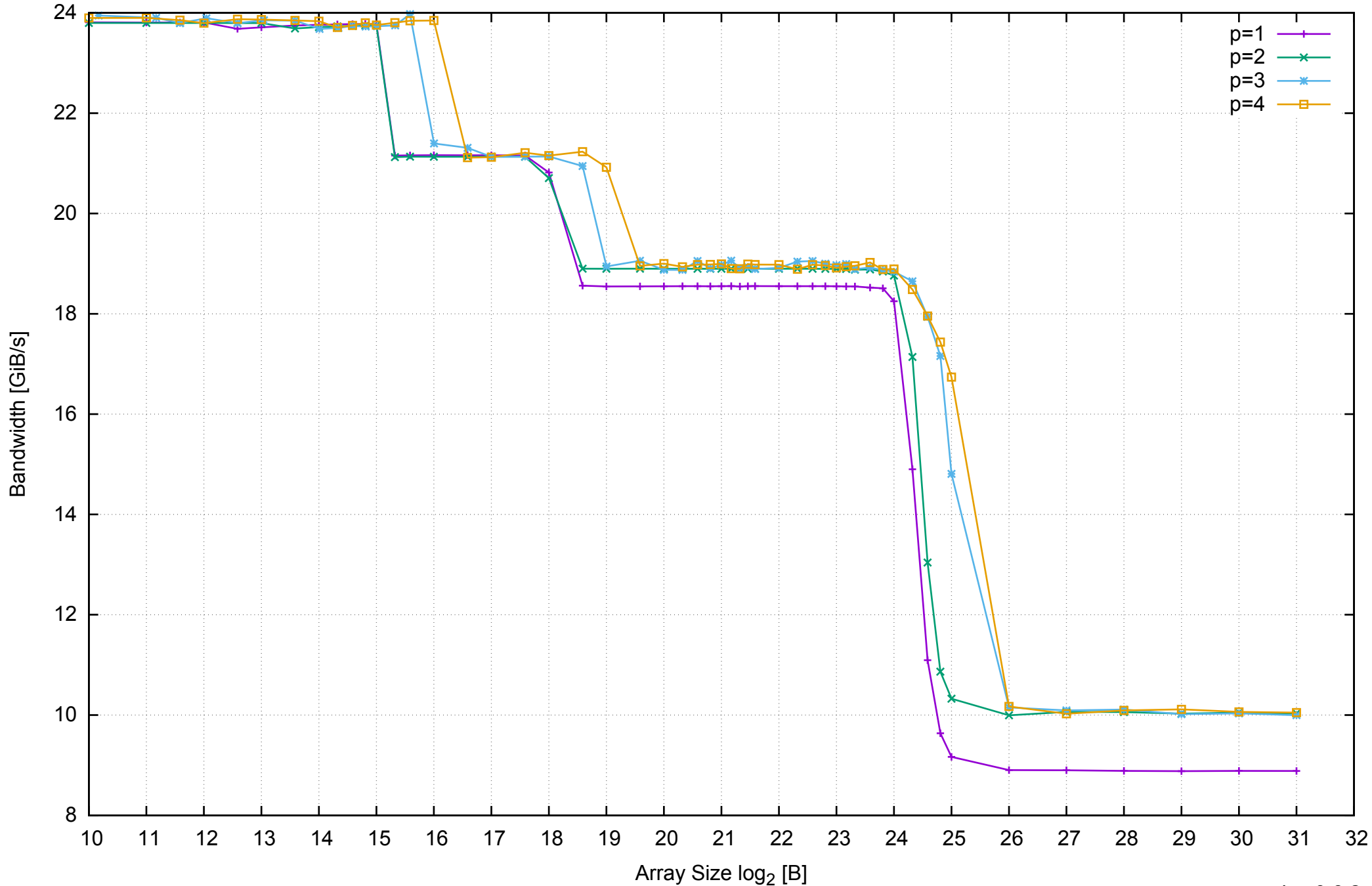


AWS c4.large - Intel Xeon E5-2666 v3 2.90 GHz 3.75GB - Speedup of Parallel Memory Bandwidth (enlarged) - ScanWrite64PtrSimpleLoop

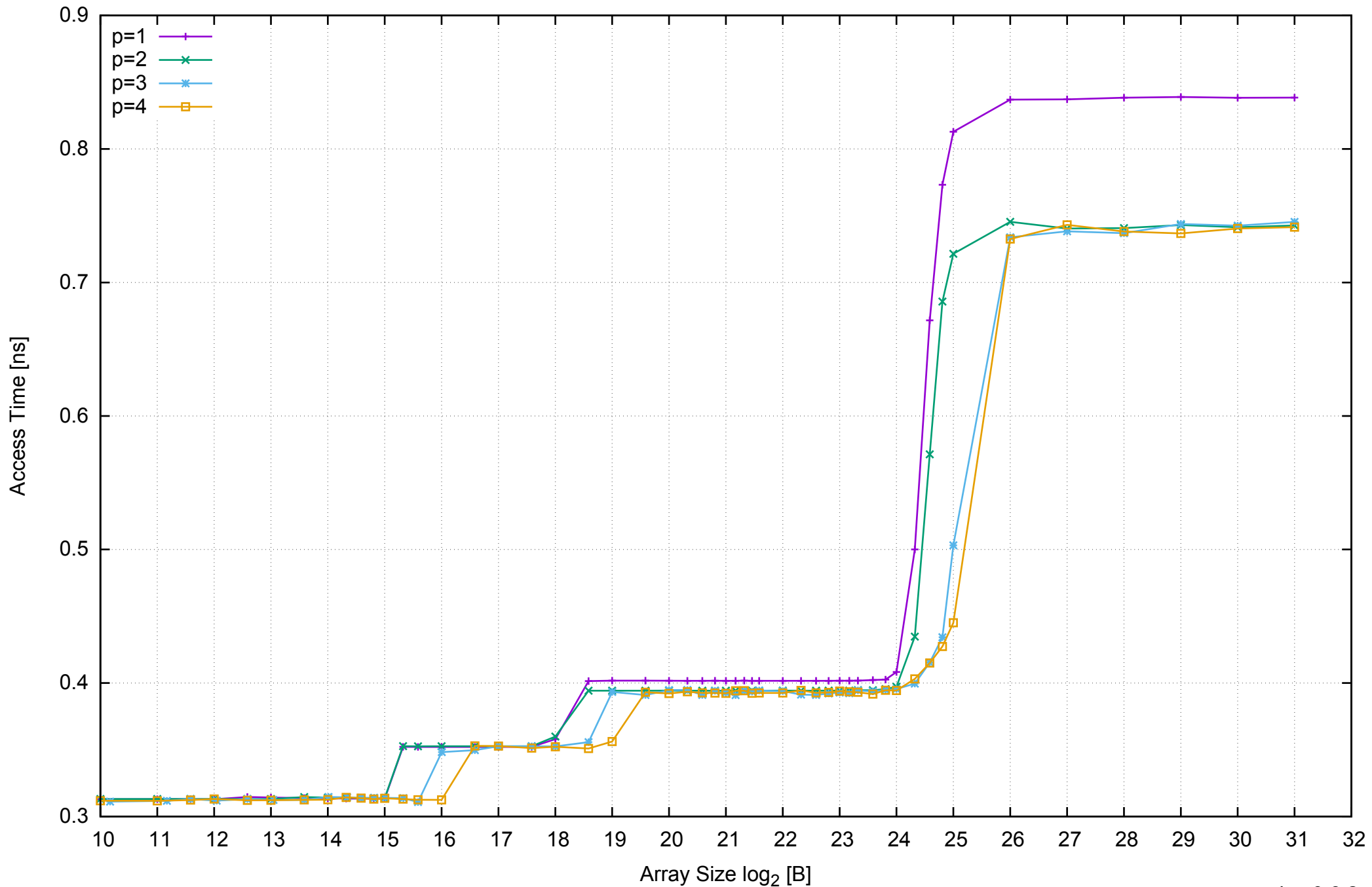




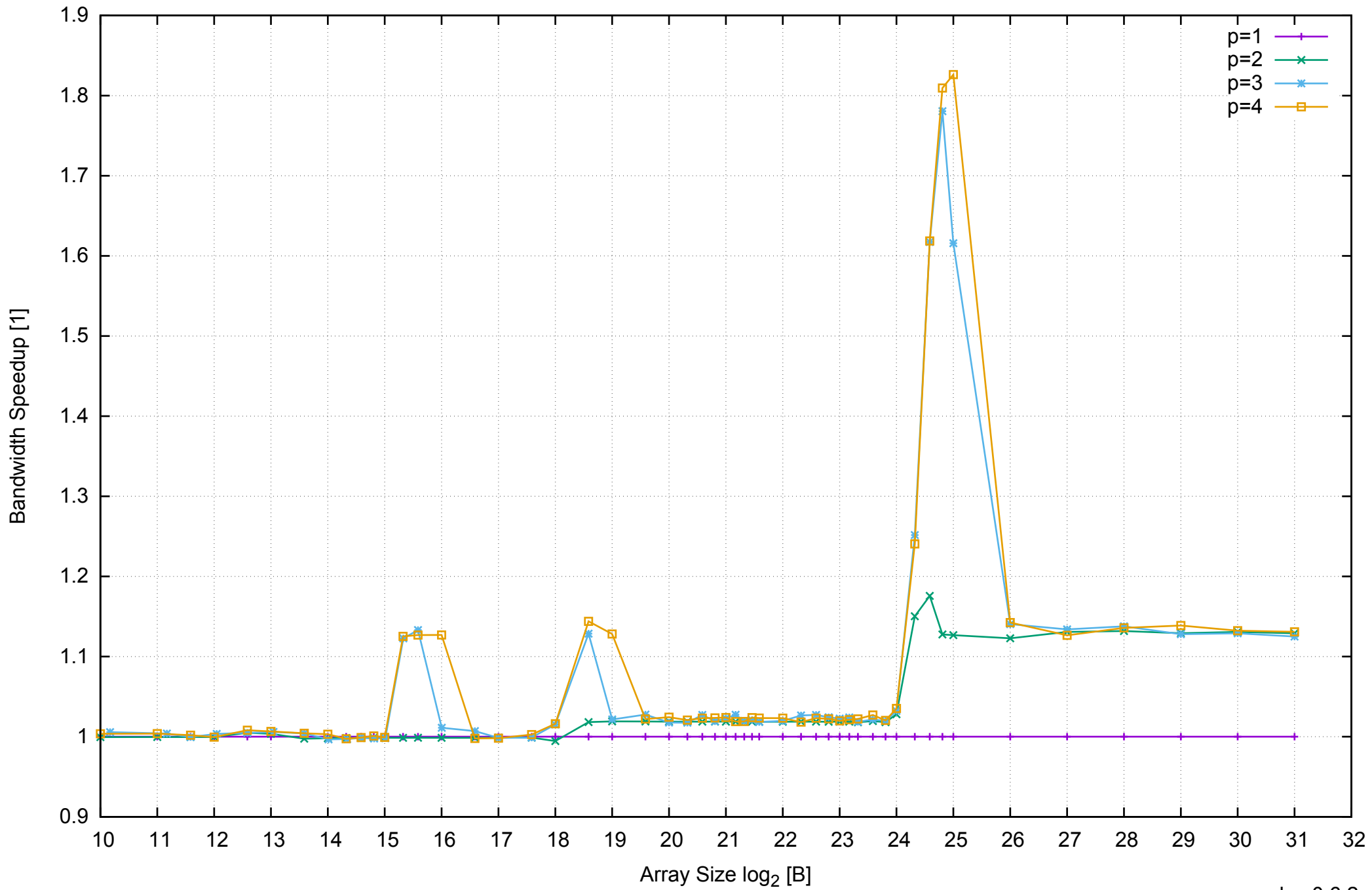
AWS c4.large - Intel Xeon E5-2666 v3 2.90 GHz 3.75GB - Parallel Memory Bandwidth - ScanWrite64PtrUnrollLoop

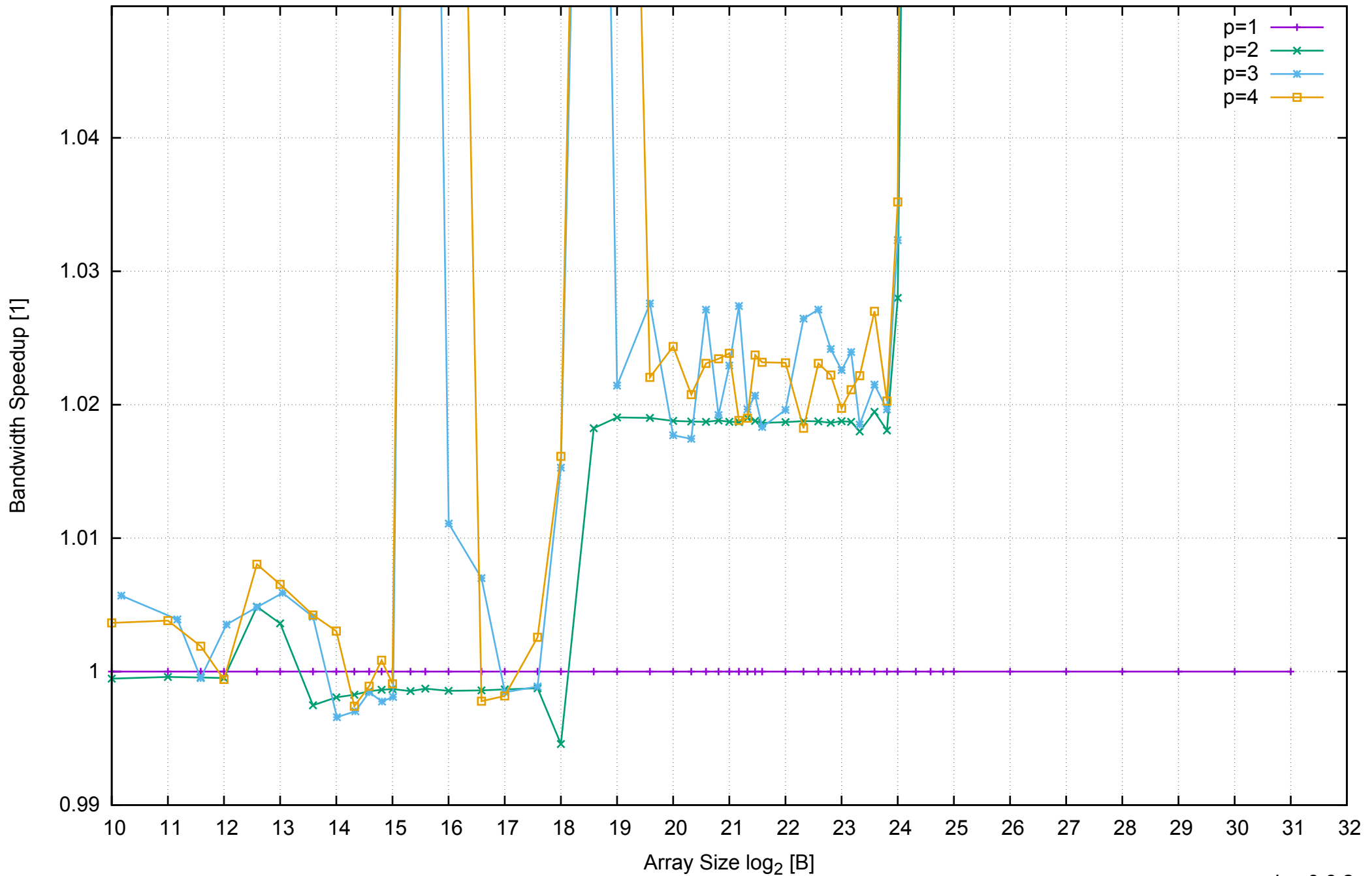


AWS c4.large - Intel Xeon E5-2666 v3 2.90 GHz 3.75GB - Parallel Memory Access Time - ScanWrite64PtrUnrollLoop

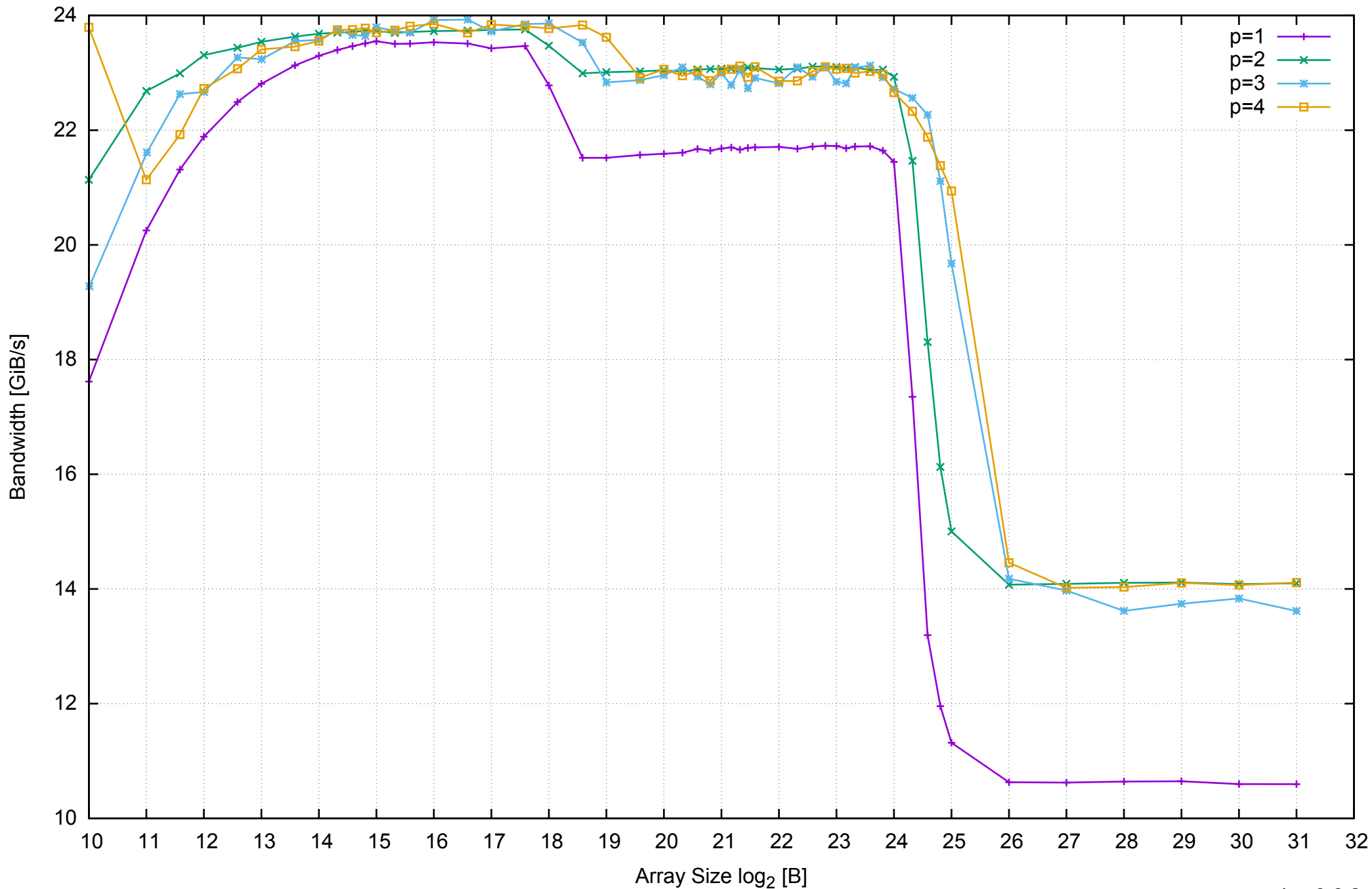


AWS c4.large - Intel Xeon E5-2666 v3 2.90 GHz 3.75GB - Speedup of Parallel Memory Bandwidth - ScanWrite64PtrUnrollLoop

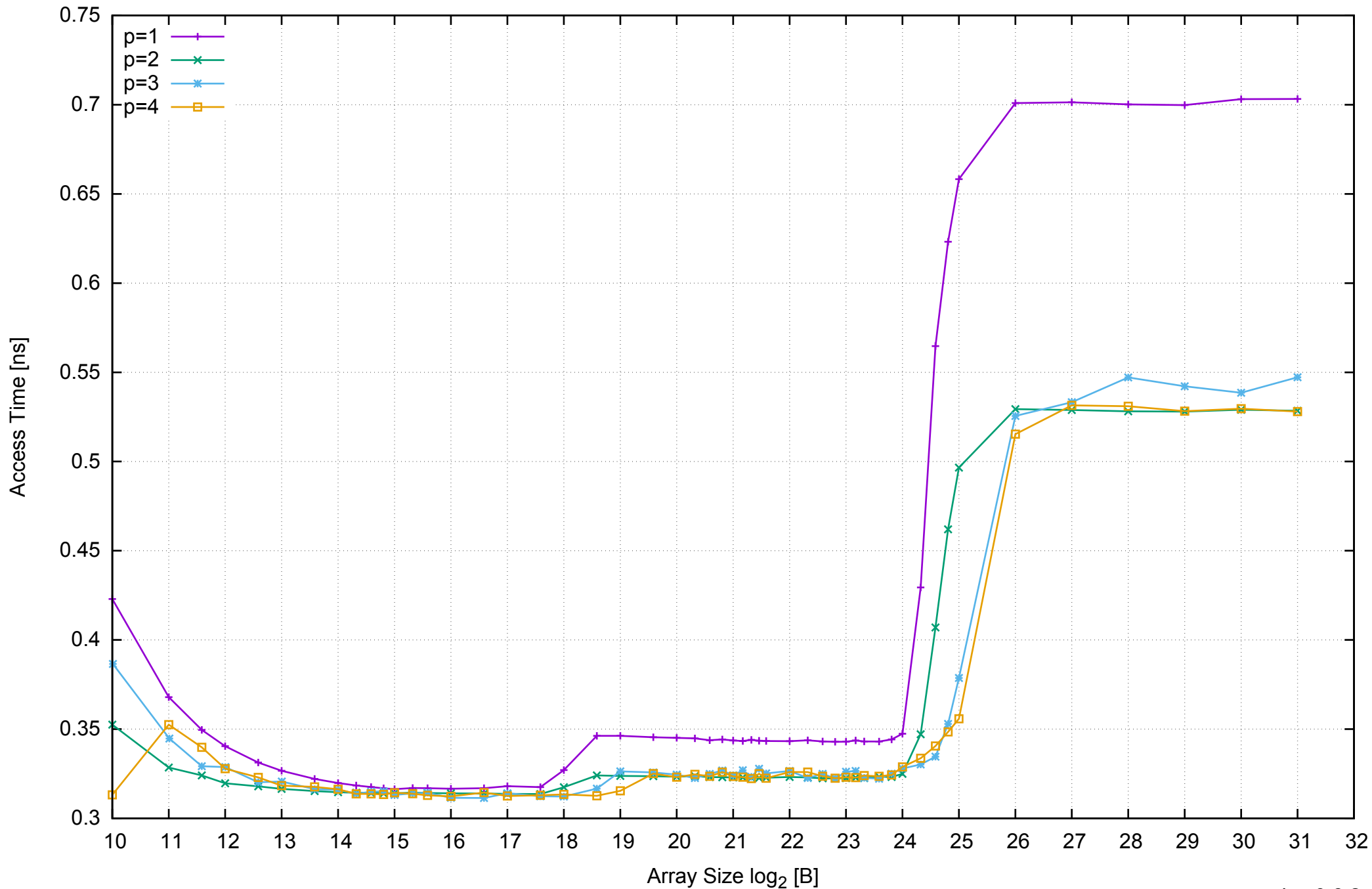




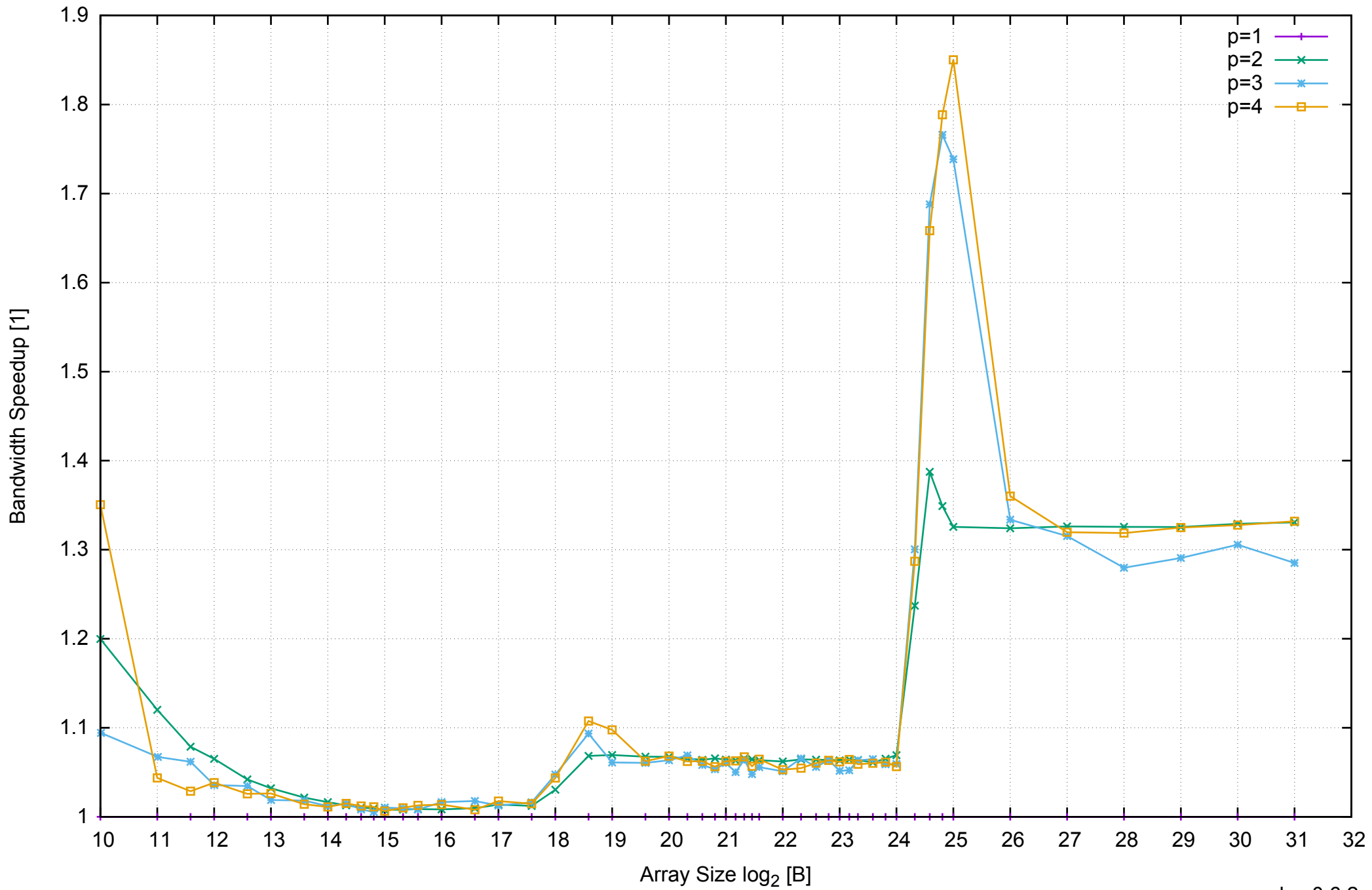
AWS c4.large - Intel Xeon E5-2666 v3 2.90 GHz 3.75GB - Parallel Memory Bandwidth - ScanRead64PtrSimpleLoop



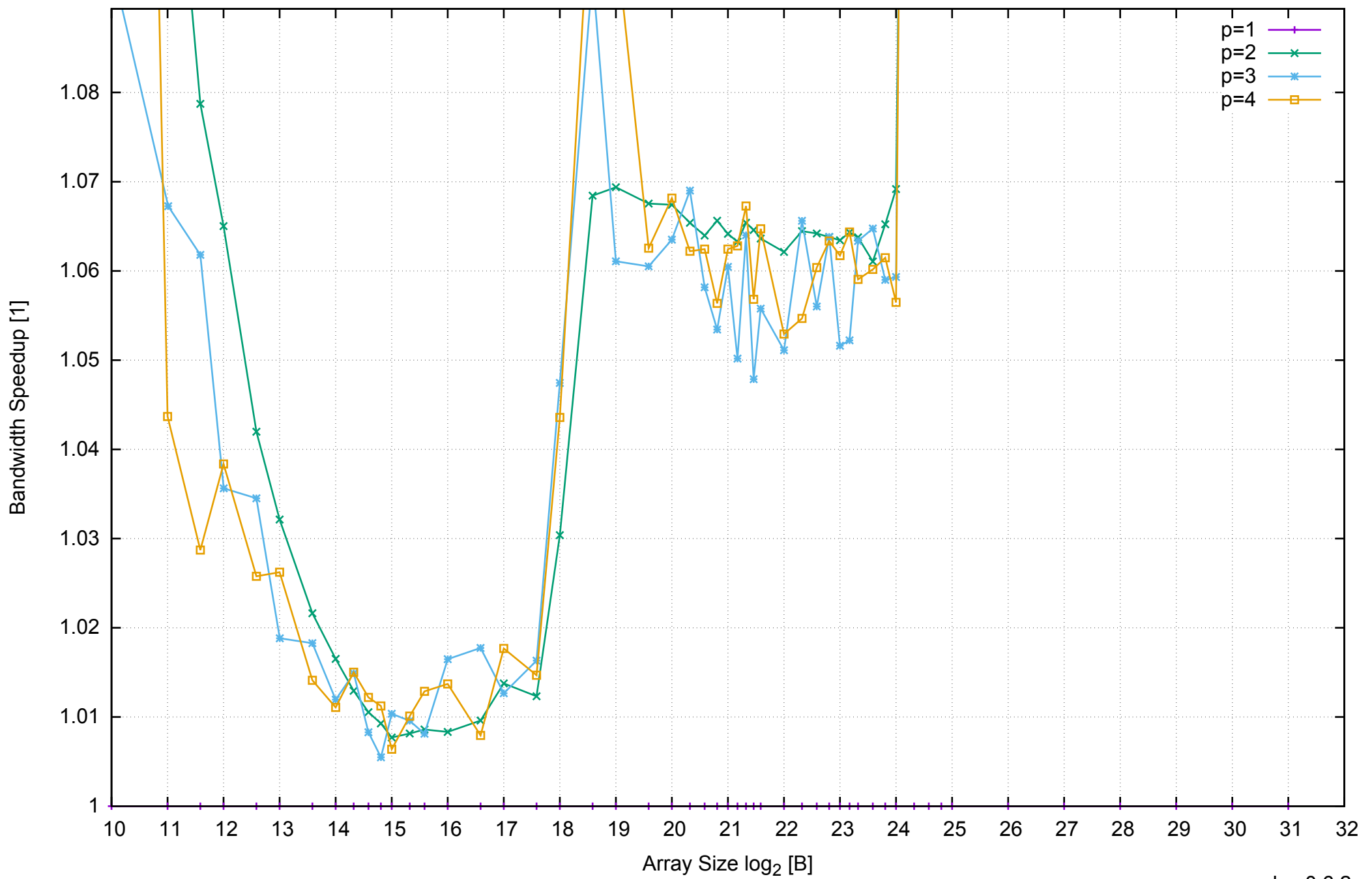
AWS c4.large - Intel Xeon E5-2666 v3 2.90 GHz 3.75GB - Parallel Memory Access Time - ScanRead64PtrSimpleLoop



AWS c4.large - Intel Xeon E5-2666 v3 2.90 GHz 3.75GB - Speedup of Parallel Memory Bandwidth - ScanRead64PtrSimpleLoop

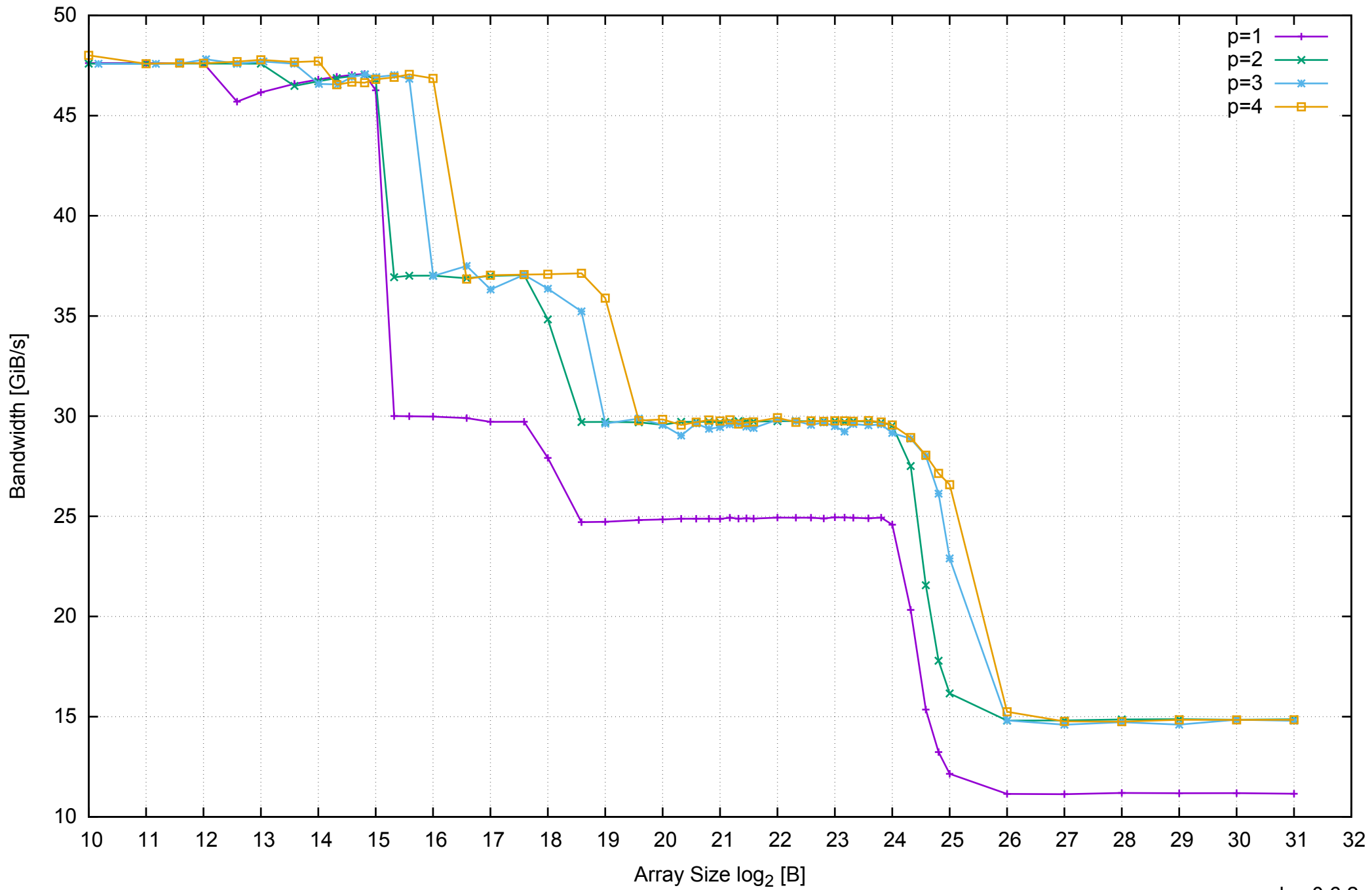


AWS c4.large - Intel Xeon E5-2666 v3 2.90 GHz 3.75GB - Speedup of Parallel Memory Bandwidth (enlarged) - ScanRead64PtrSimpleLoop

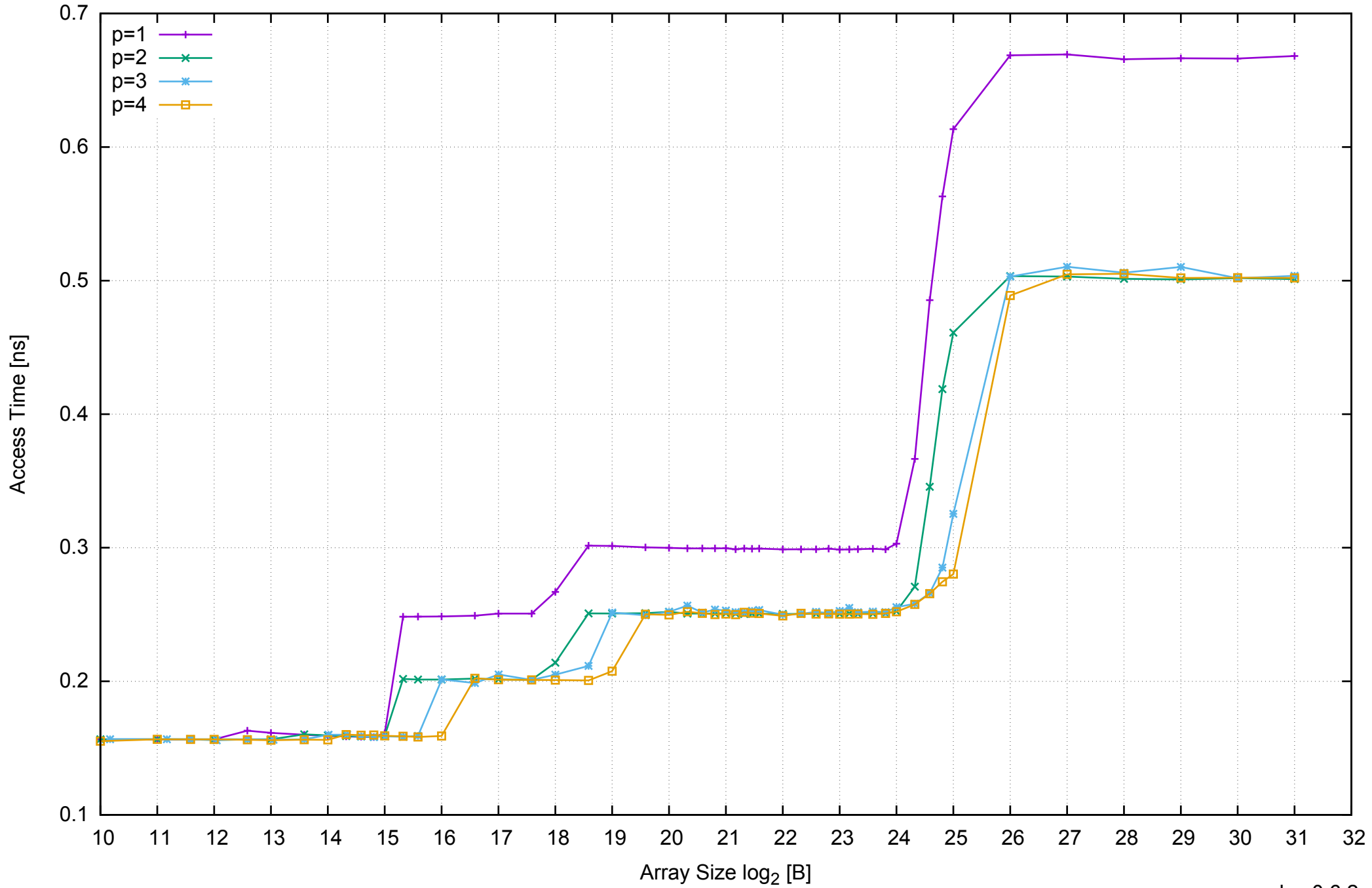




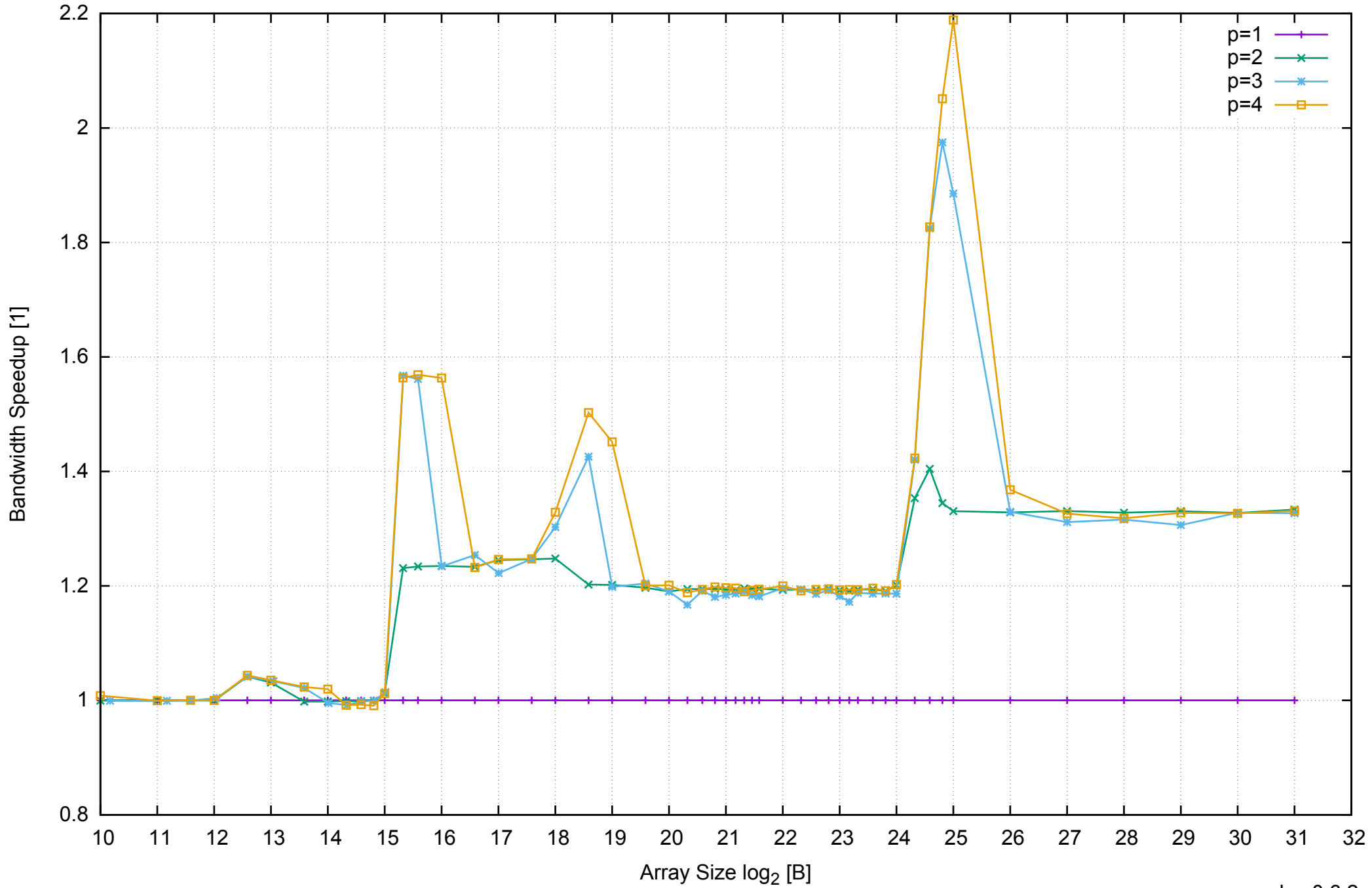
AWS c4.large - Intel Xeon E5-2666 v3 2.90 GHz 3.75GB - Parallel Memory Bandwidth - ScanRead64PtrUnrollLoop

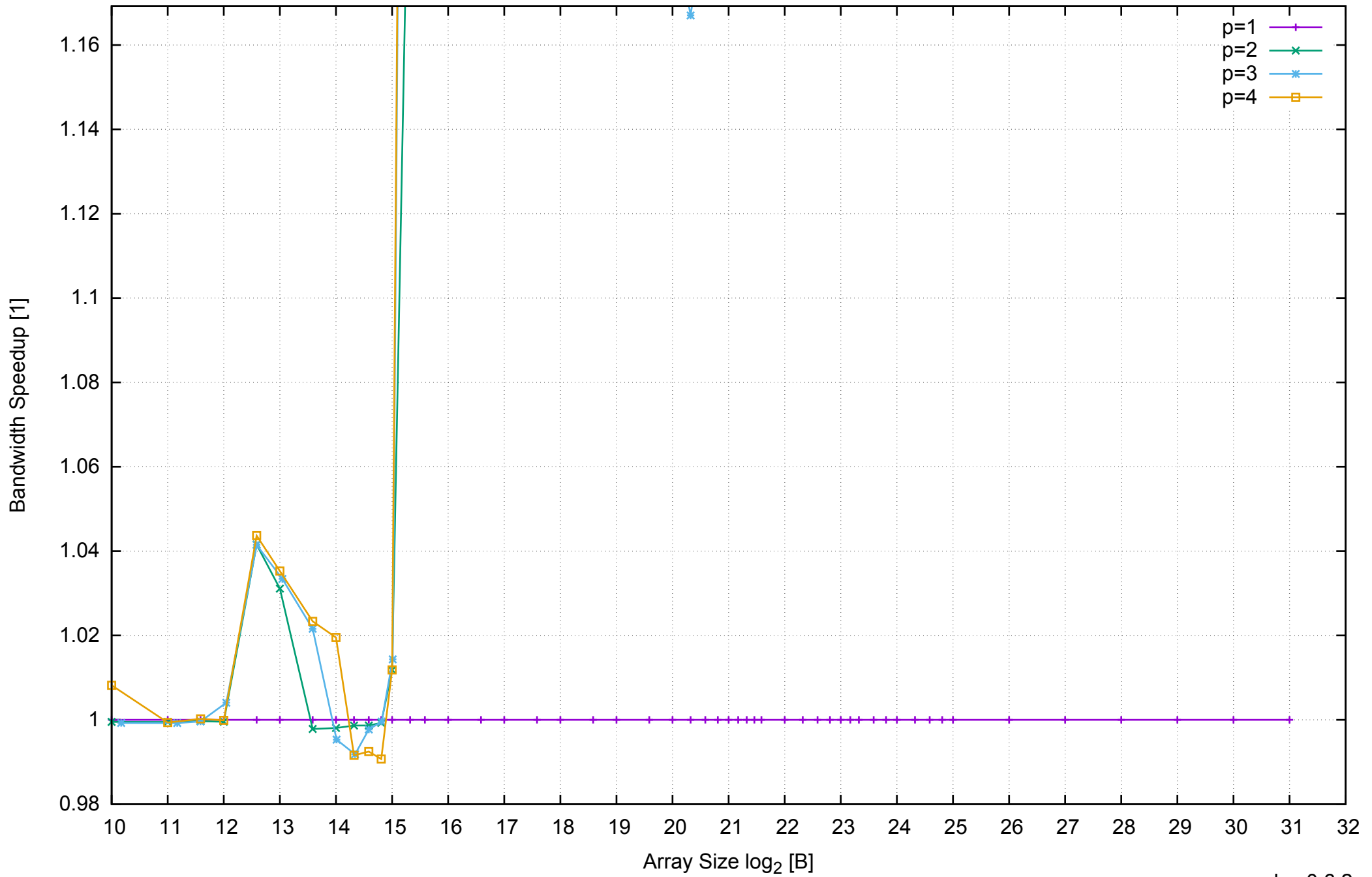


AWS c4.large - Intel Xeon E5-2666 v3 2.90 GHz 3.75GB - Parallel Memory Access Time - ScanRead64PtrUnrollLoop

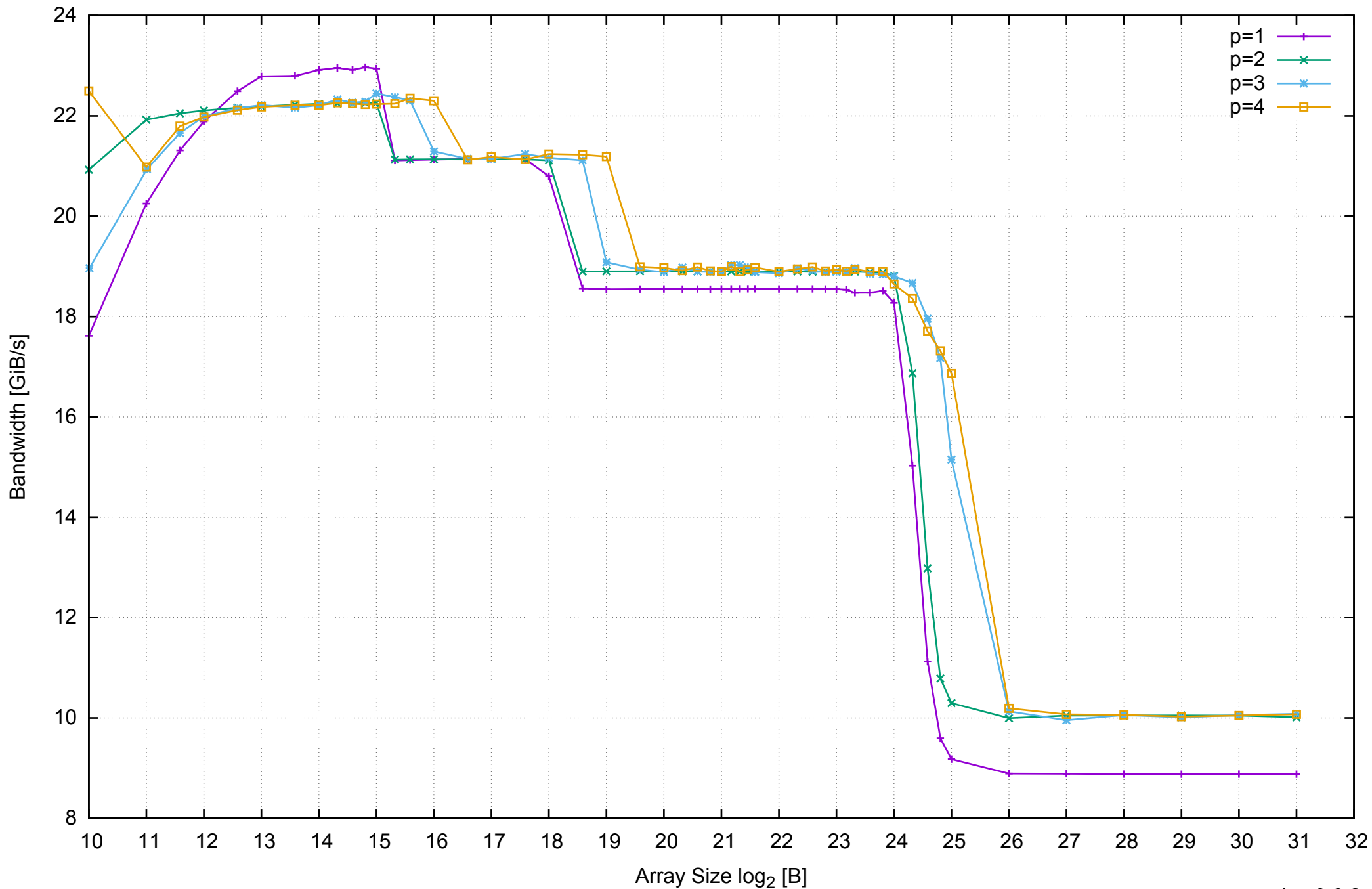


AWS c4.large - Intel Xeon E5-2666 v3 2.90 GHz 3.75GB - Speedup of Parallel Memory Bandwidth - ScanRead64PtrUnrollLoop

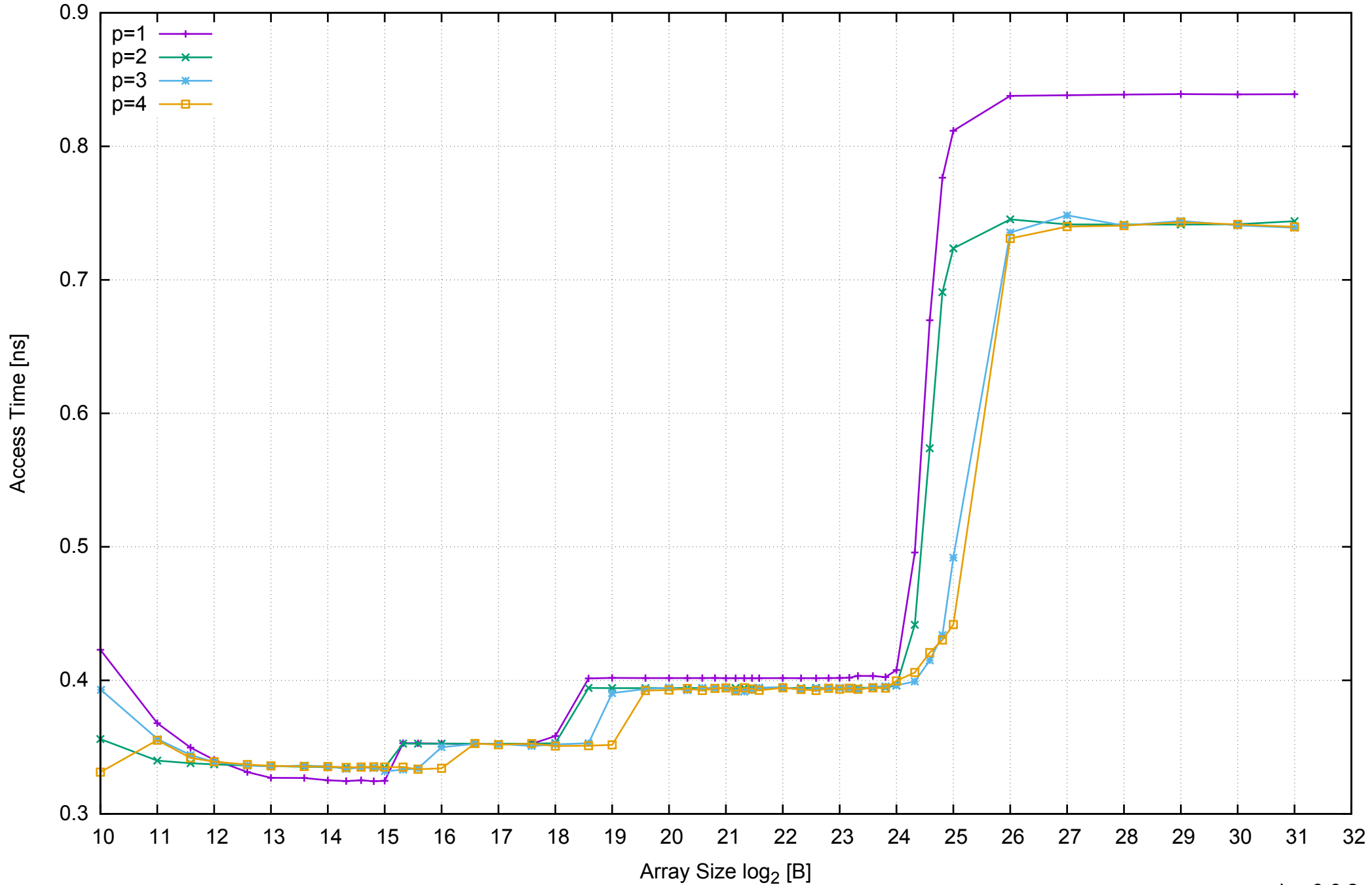




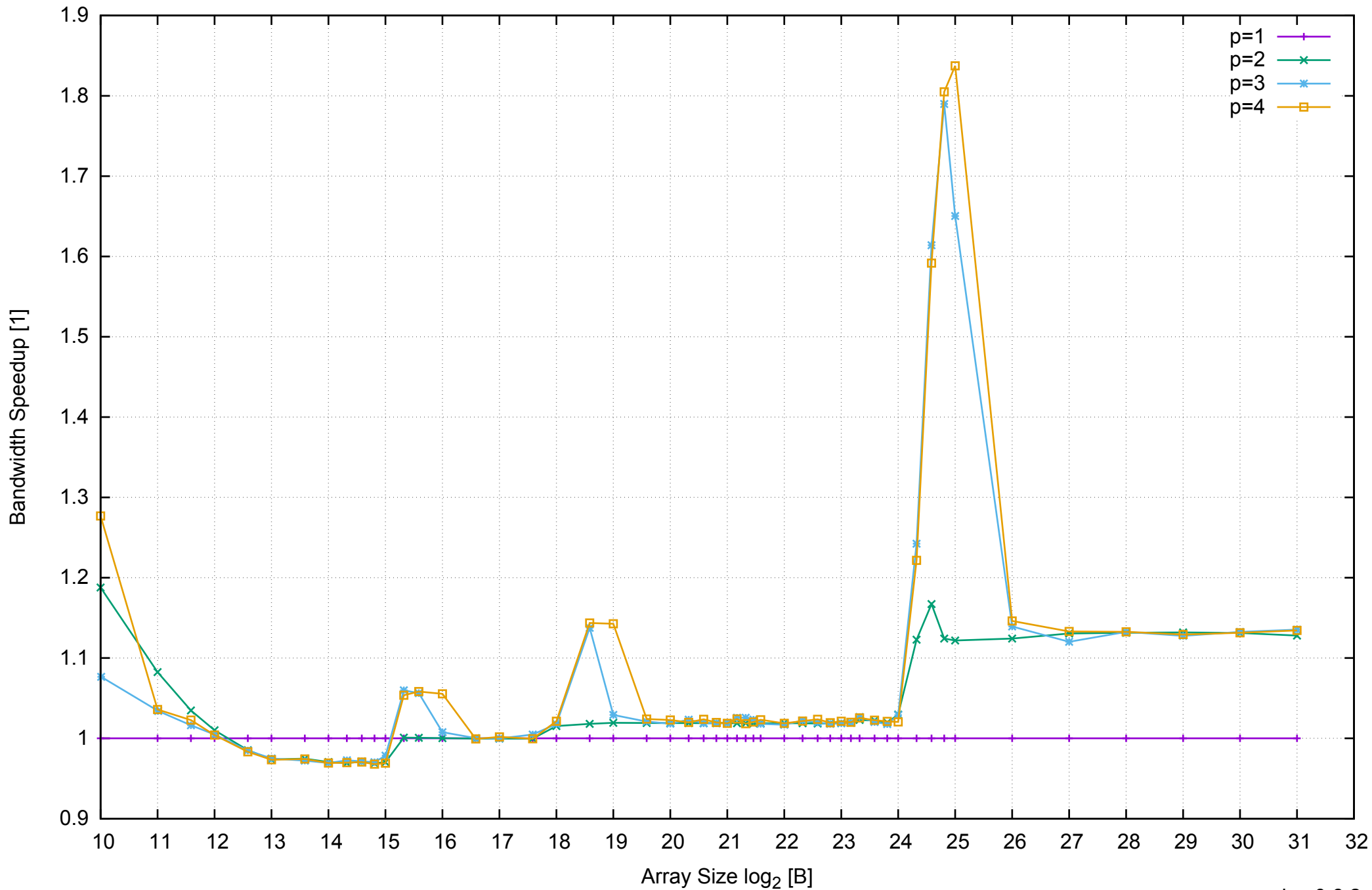
AWS c4.large - Intel Xeon E5-2666 v3 2.90 GHz 3.75GB - Parallel Memory Bandwidth - ScanWrite64IndexSimpleLoop

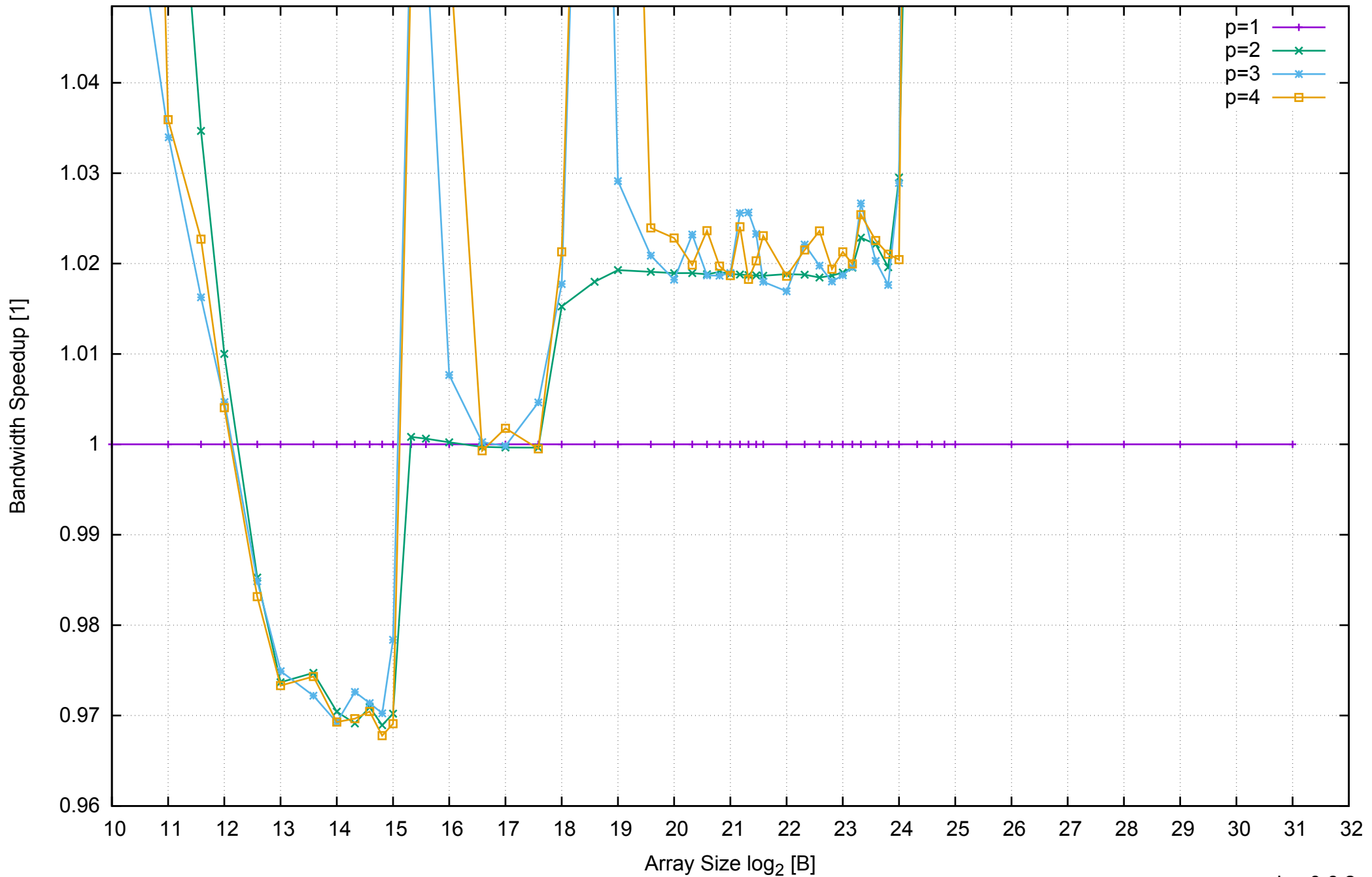


AWS c4.large - Intel Xeon E5-2666 v3 2.90 GHz 3.75GB - Parallel Memory Access Time - ScanWrite64IndexSimpleLoop



AWS c4.large - Intel Xeon E5-2666 v3 2.90 GHz 3.75GB - Speedup of Parallel Memory Bandwidth - ScanWrite64IndexSimpleLoop

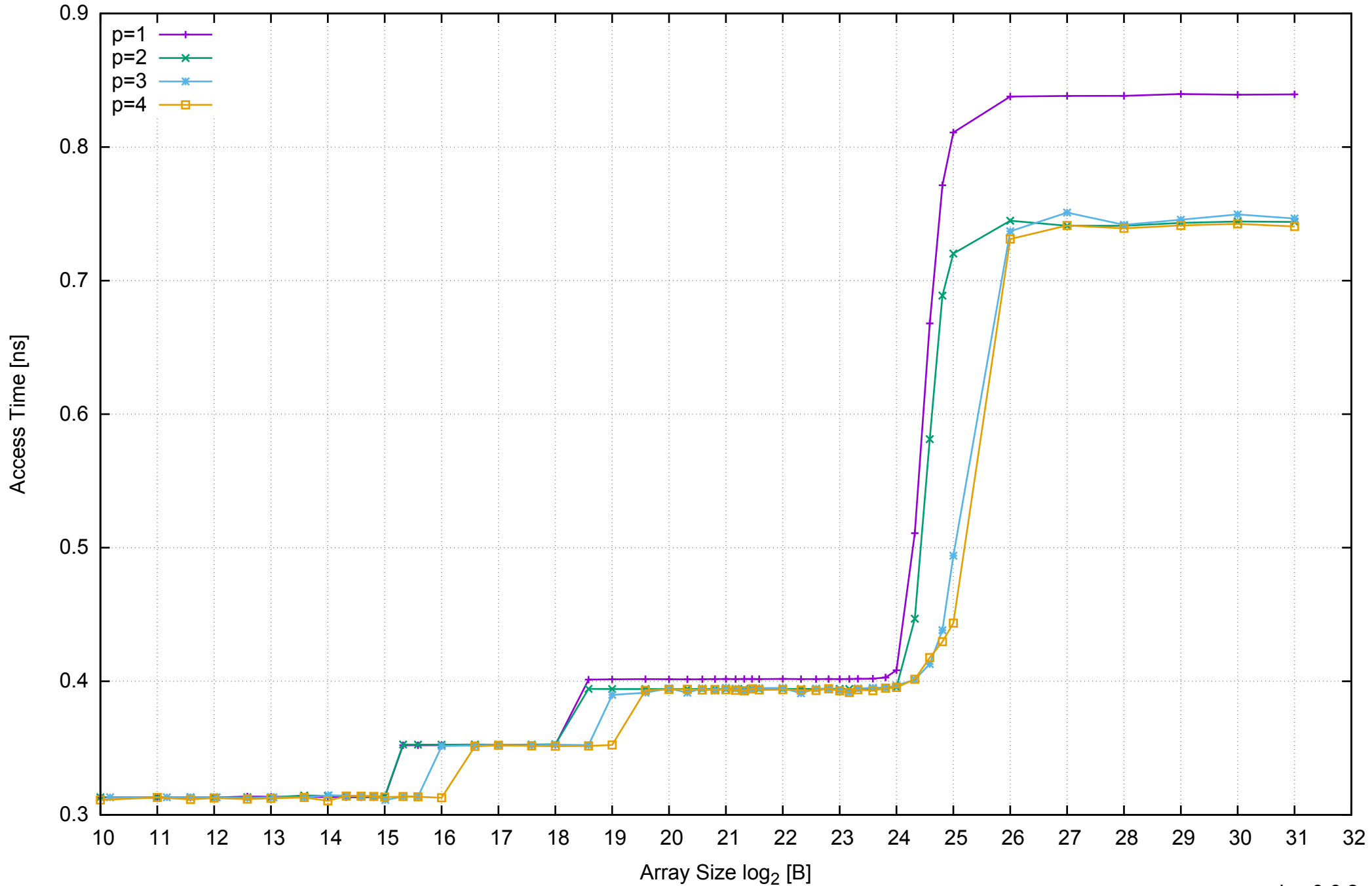




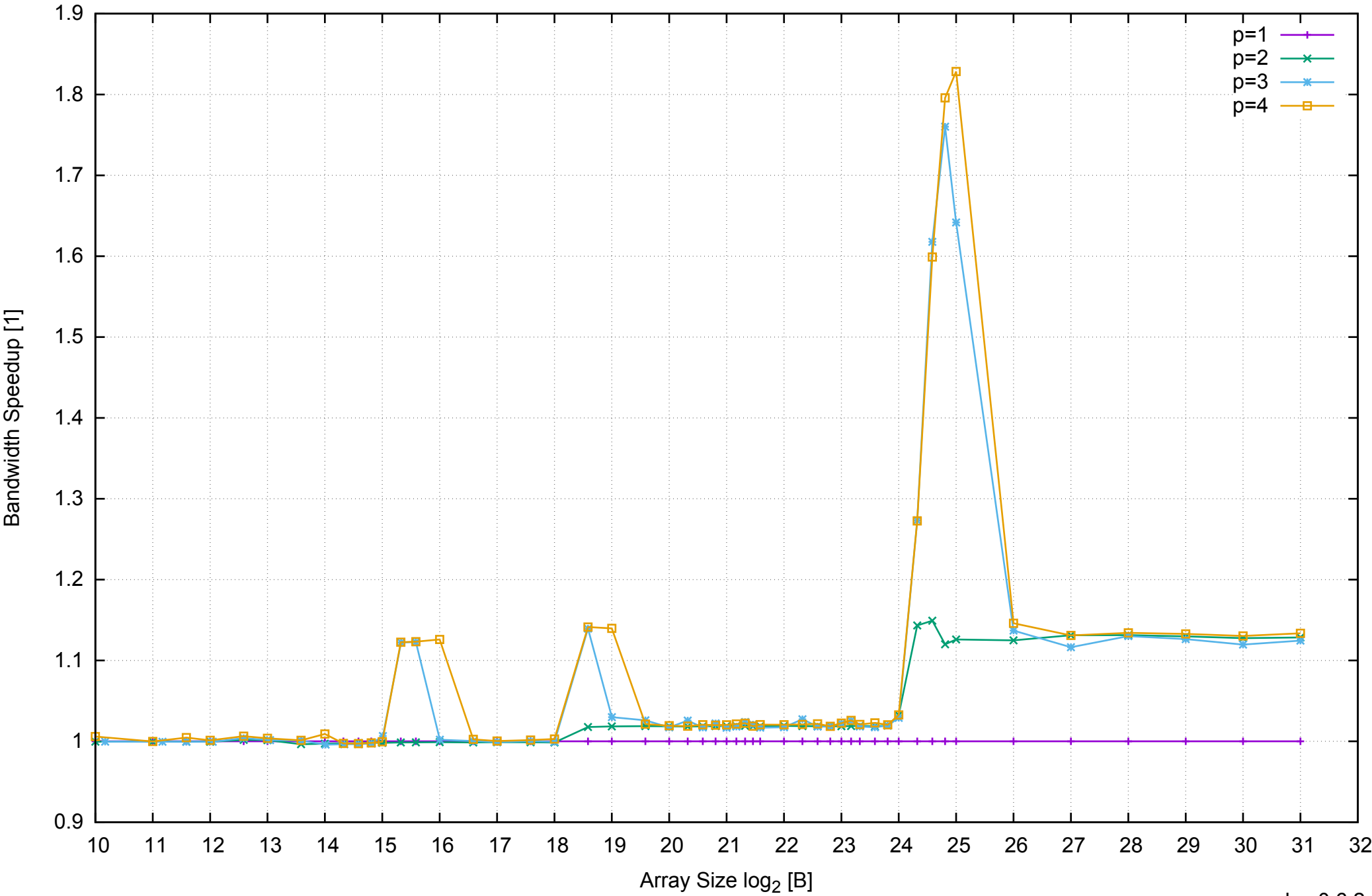


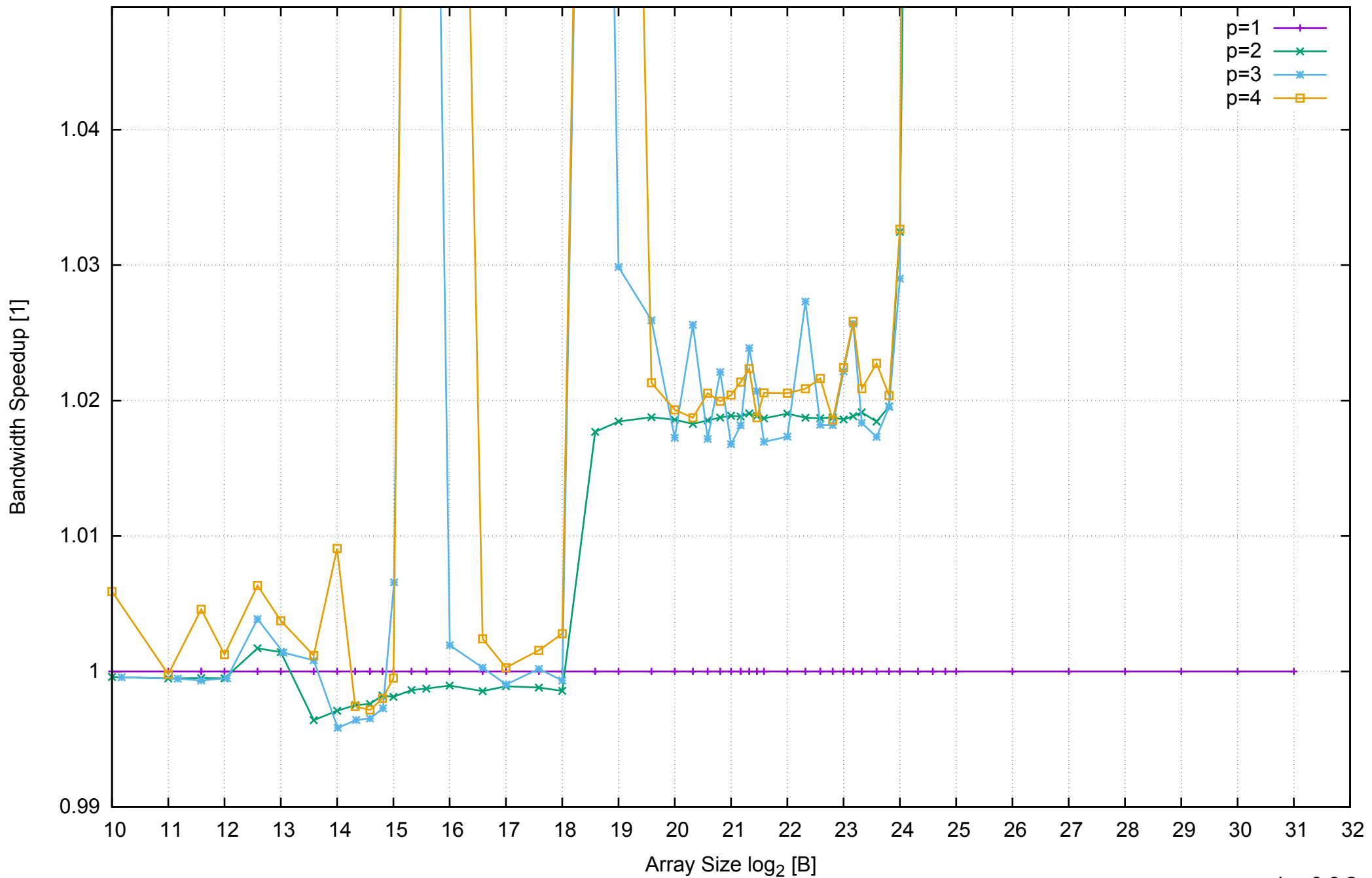


AWS c4.large - Intel Xeon E5-2666 v3 2.90 GHz 3.75GB - Parallel Memory Access Time - ScanWrite64IndexUnrollLoop

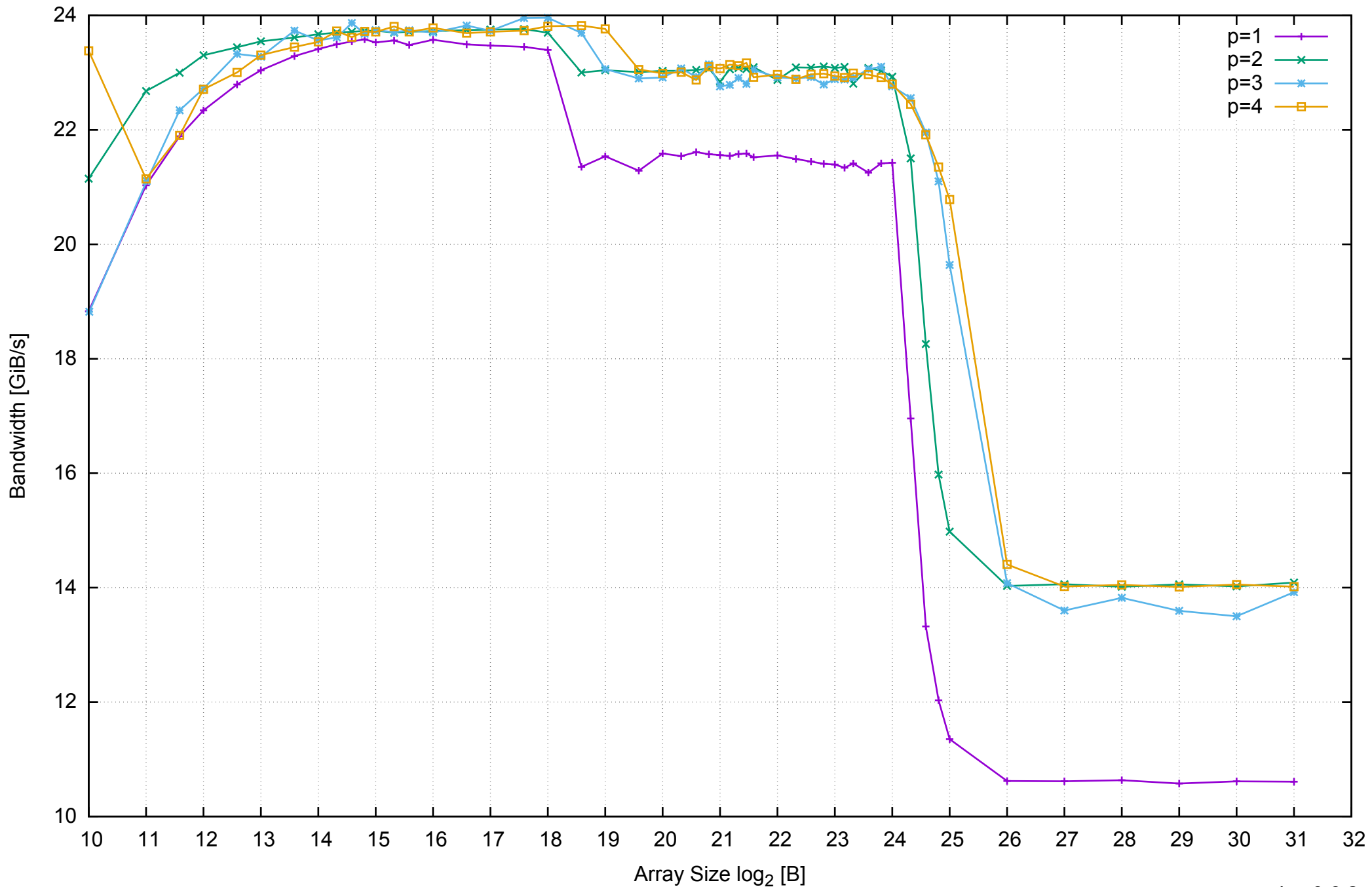


AWS c4.large - Intel Xeon E5-2666 v3 2.90 GHz 3.75GB - Speedup of Parallel Memory Bandwidth - ScanWrite64IndexUnrollLoop

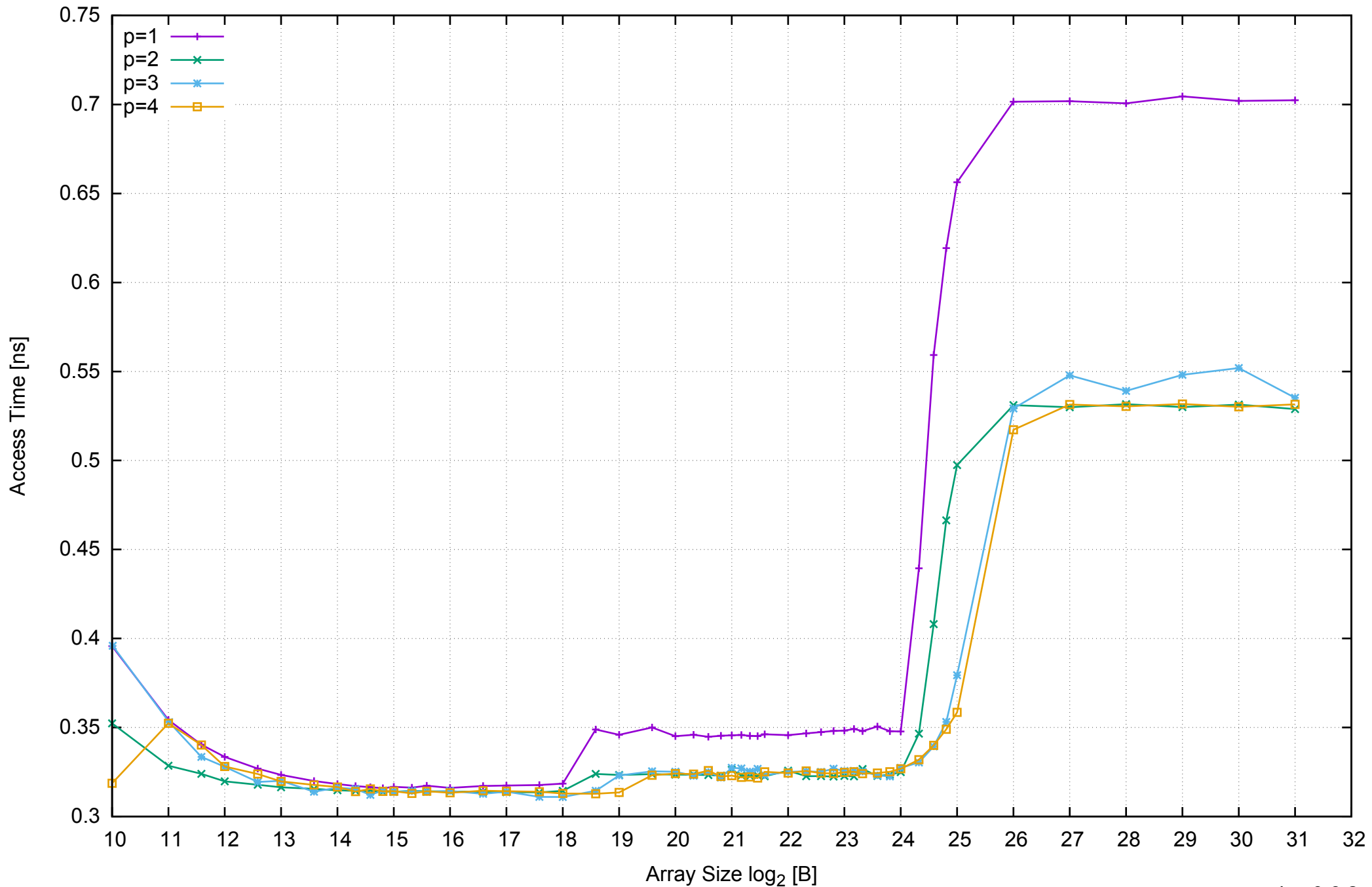




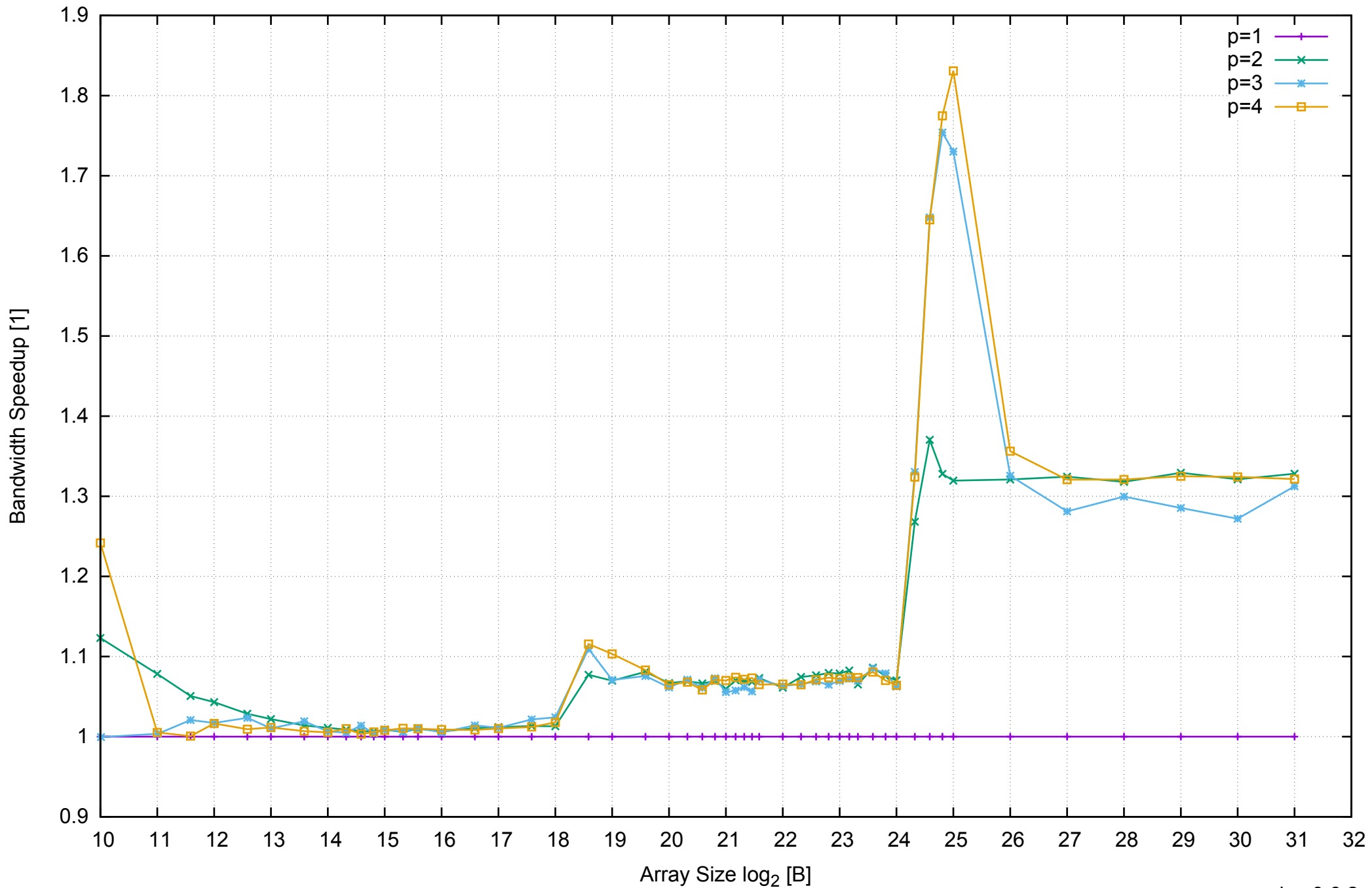
AWS c4.large - Intel Xeon E5-2666 v3 2.90 GHz 3.75GB - Parallel Memory Bandwidth - ScanRead64IndexSimpleLoop

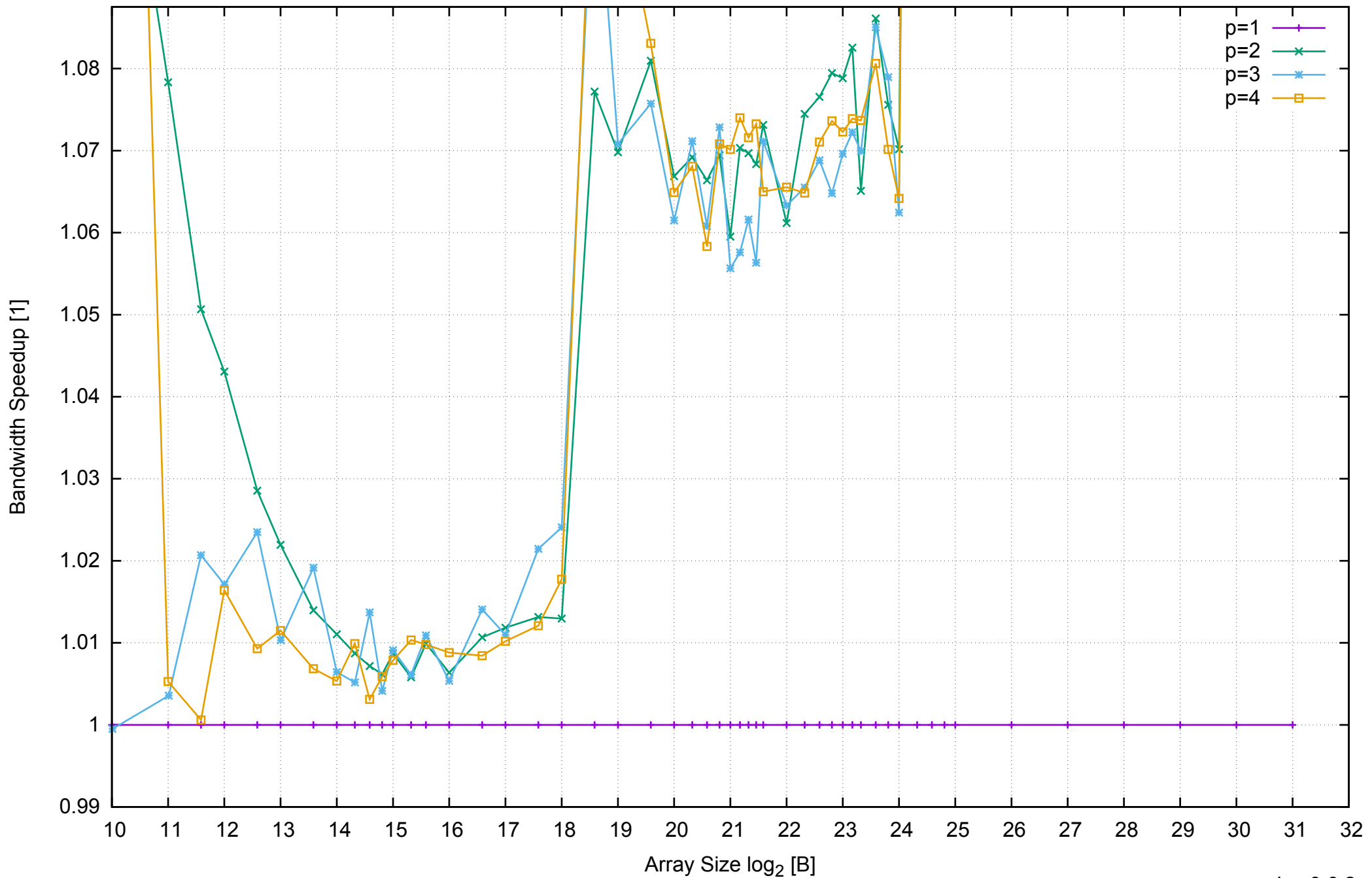


AWS c4.large - Intel Xeon E5-2666 v3 2.90 GHz 3.75GB - Parallel Memory Access Time - ScanRead64IndexSimpleLoop



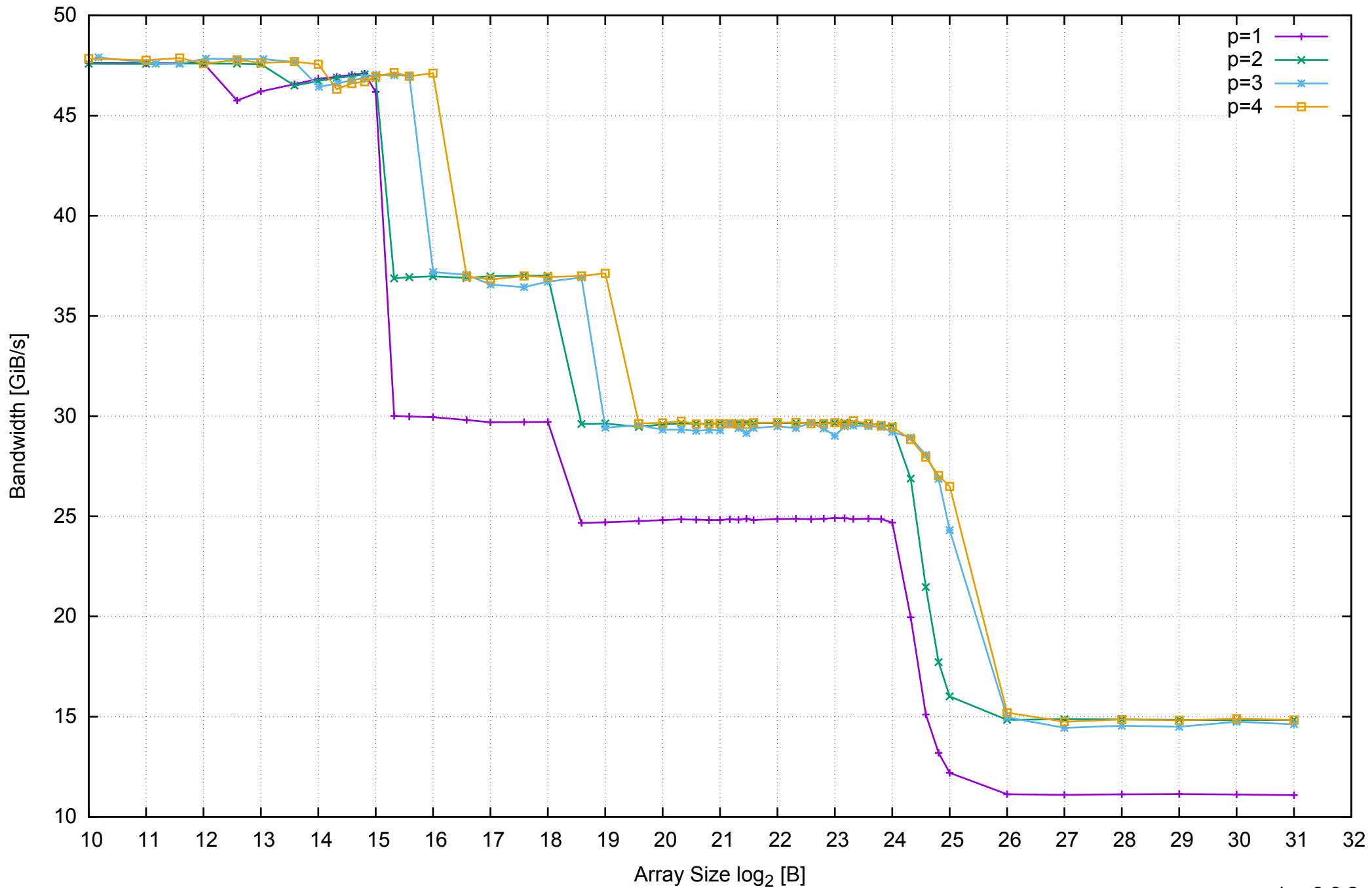
AWS c4.large - Intel Xeon E5-2666 v3 2.90 GHz 3.75GB - Speedup of Parallel Memory Bandwidth - ScanRead64IndexSimpleLoop



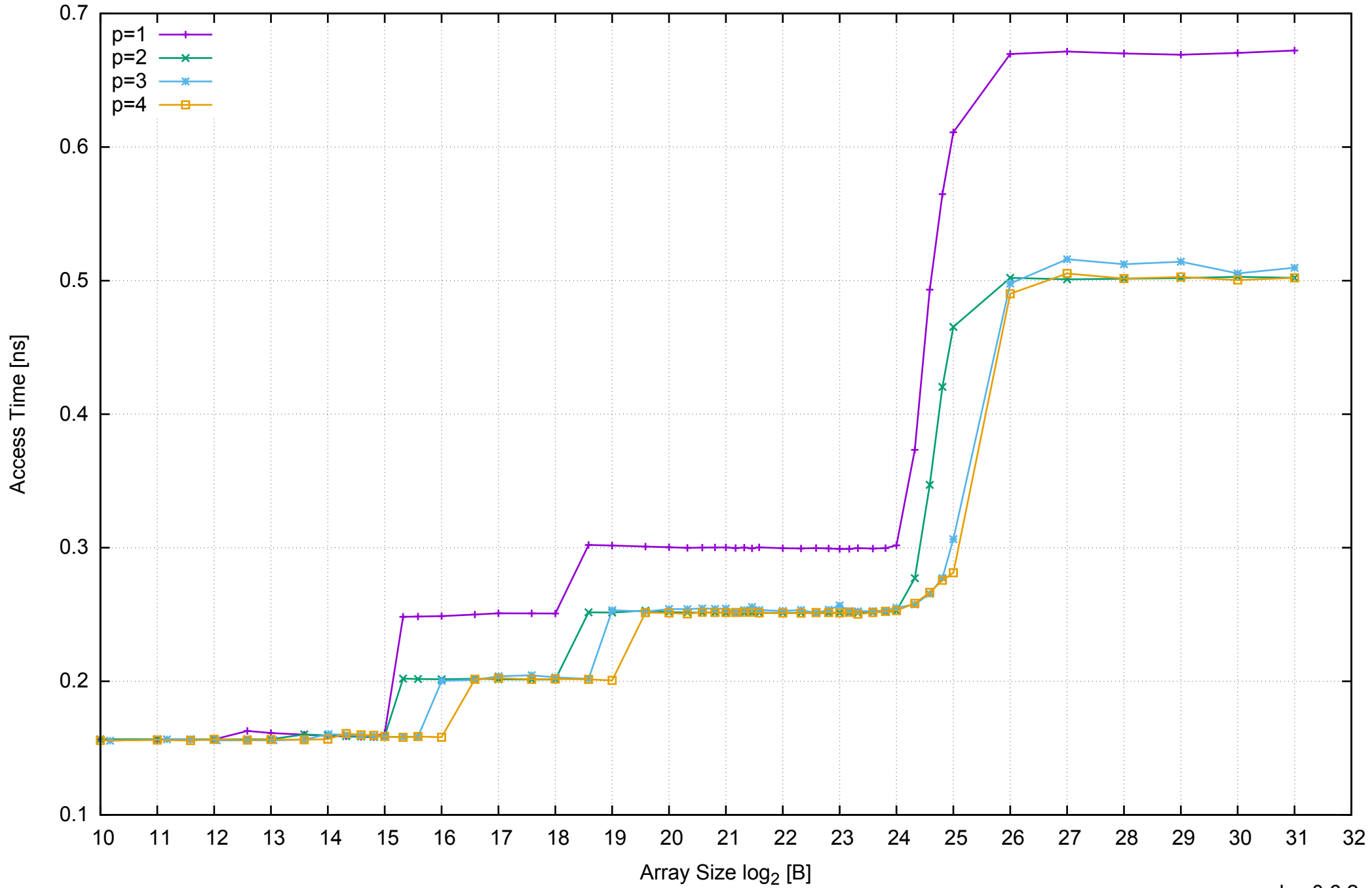




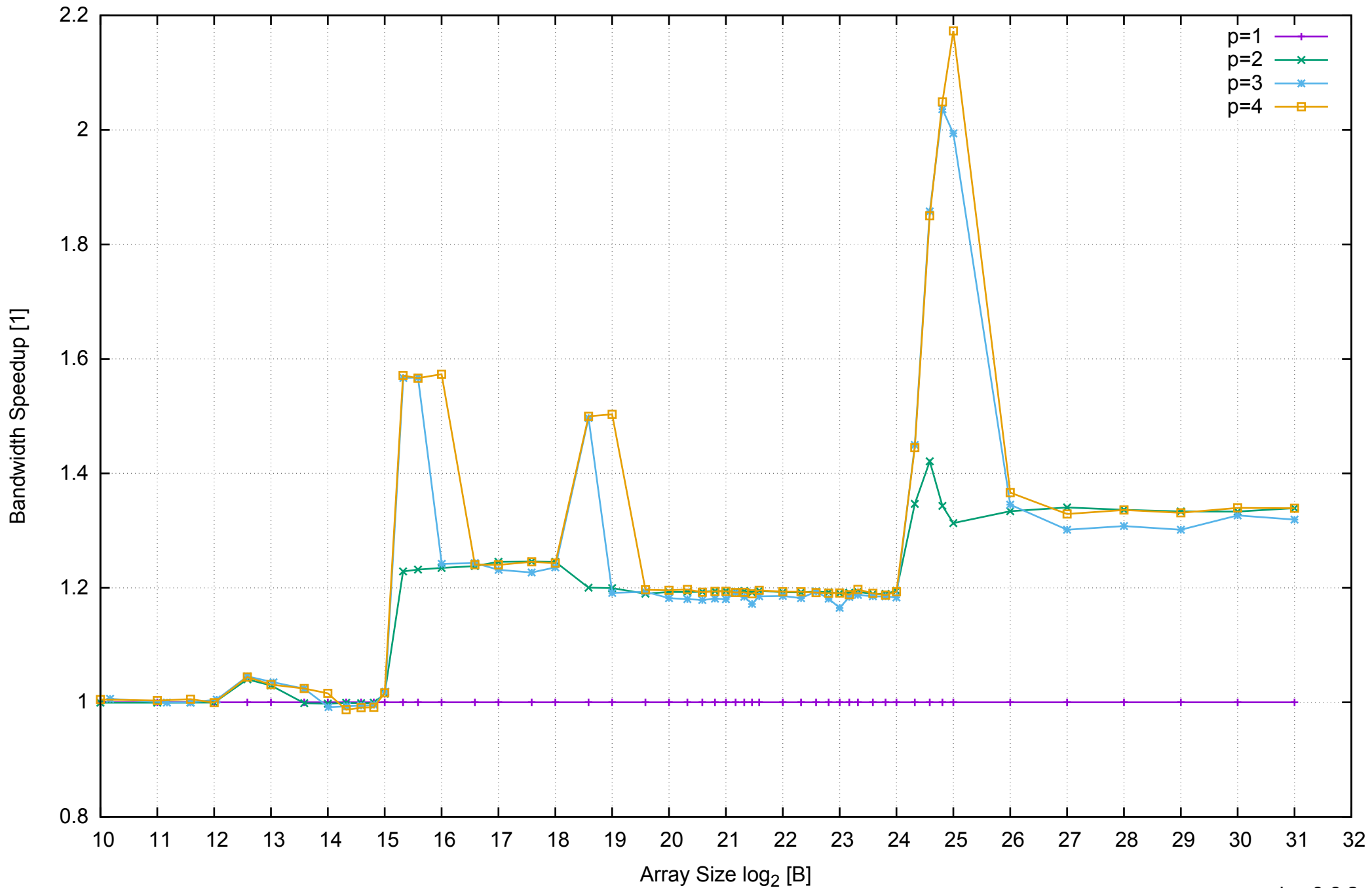
AWS c4.large - Intel Xeon E5-2666 v3 2.90 GHz 3.75GB - Parallel Memory Bandwidth - ScanRead64IndexUnrollLoop

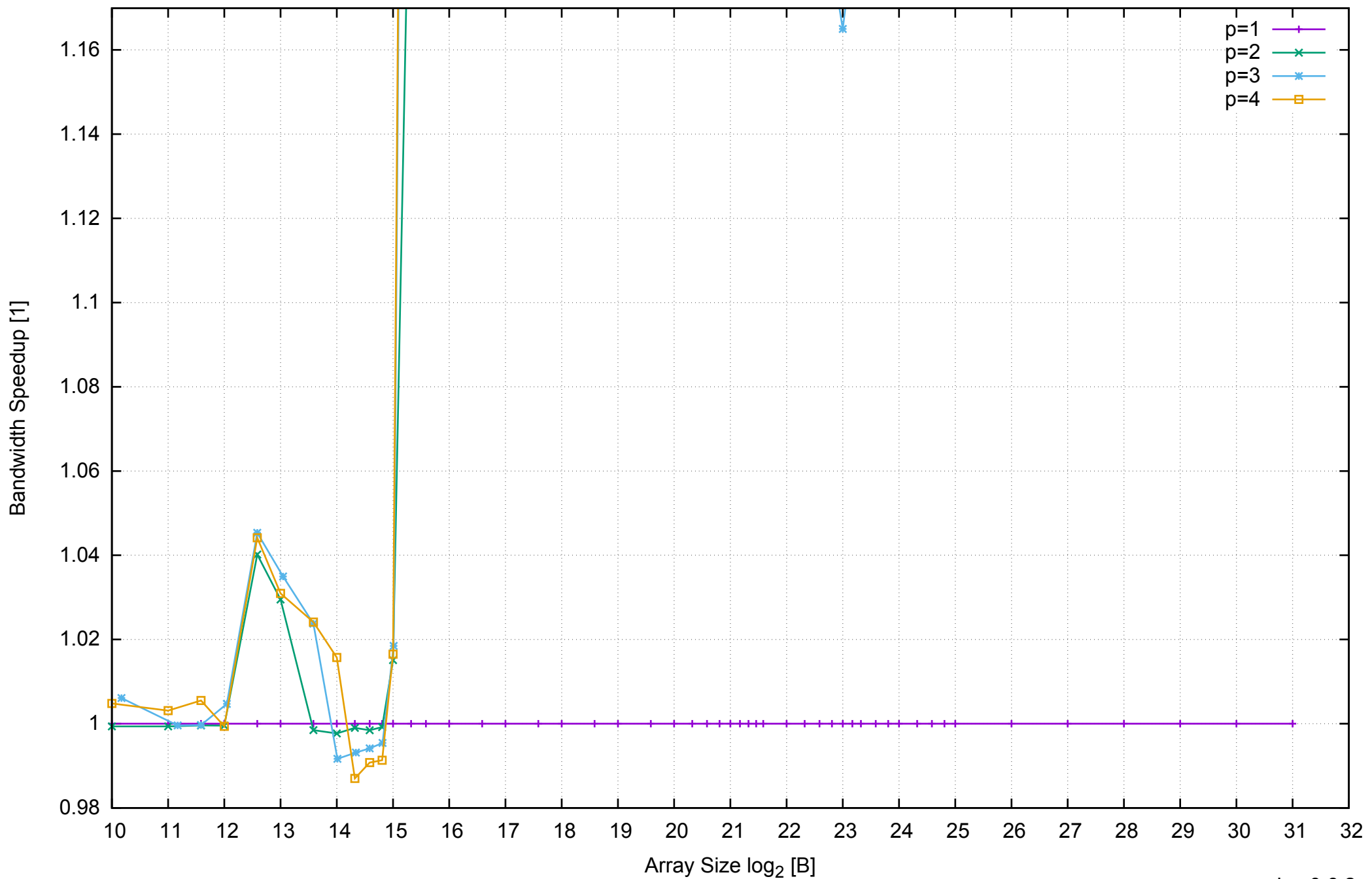


AWS c4.large - Intel Xeon E5-2666 v3 2.90 GHz 3.75GB - Parallel Memory Access Time - ScanRead64IndexUnrollLoop

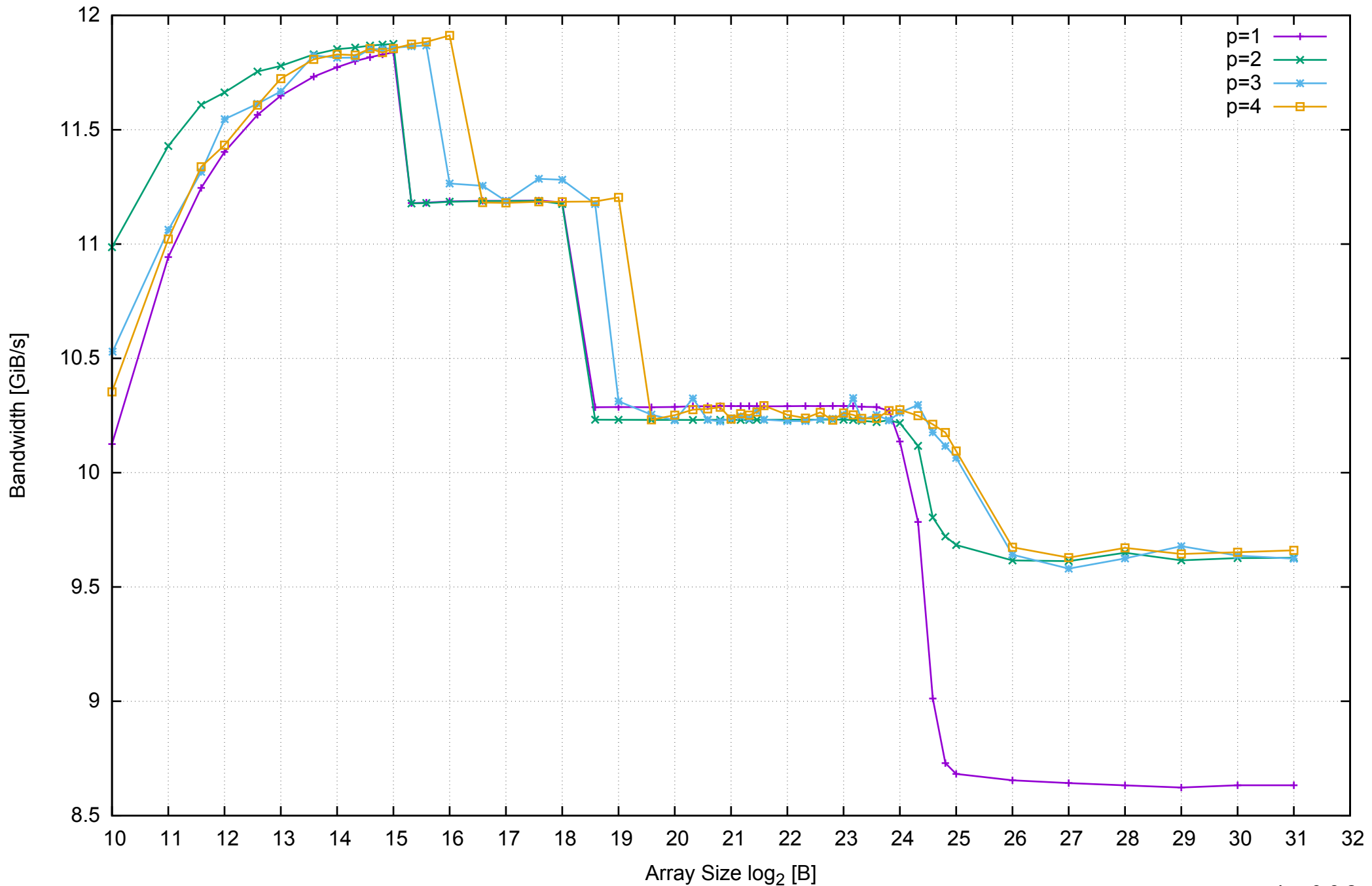


AWS c4.large - Intel Xeon E5-2666 v3 2.90 GHz 3.75GB - Speedup of Parallel Memory Bandwidth - ScanRead64IndexUnrollLoop

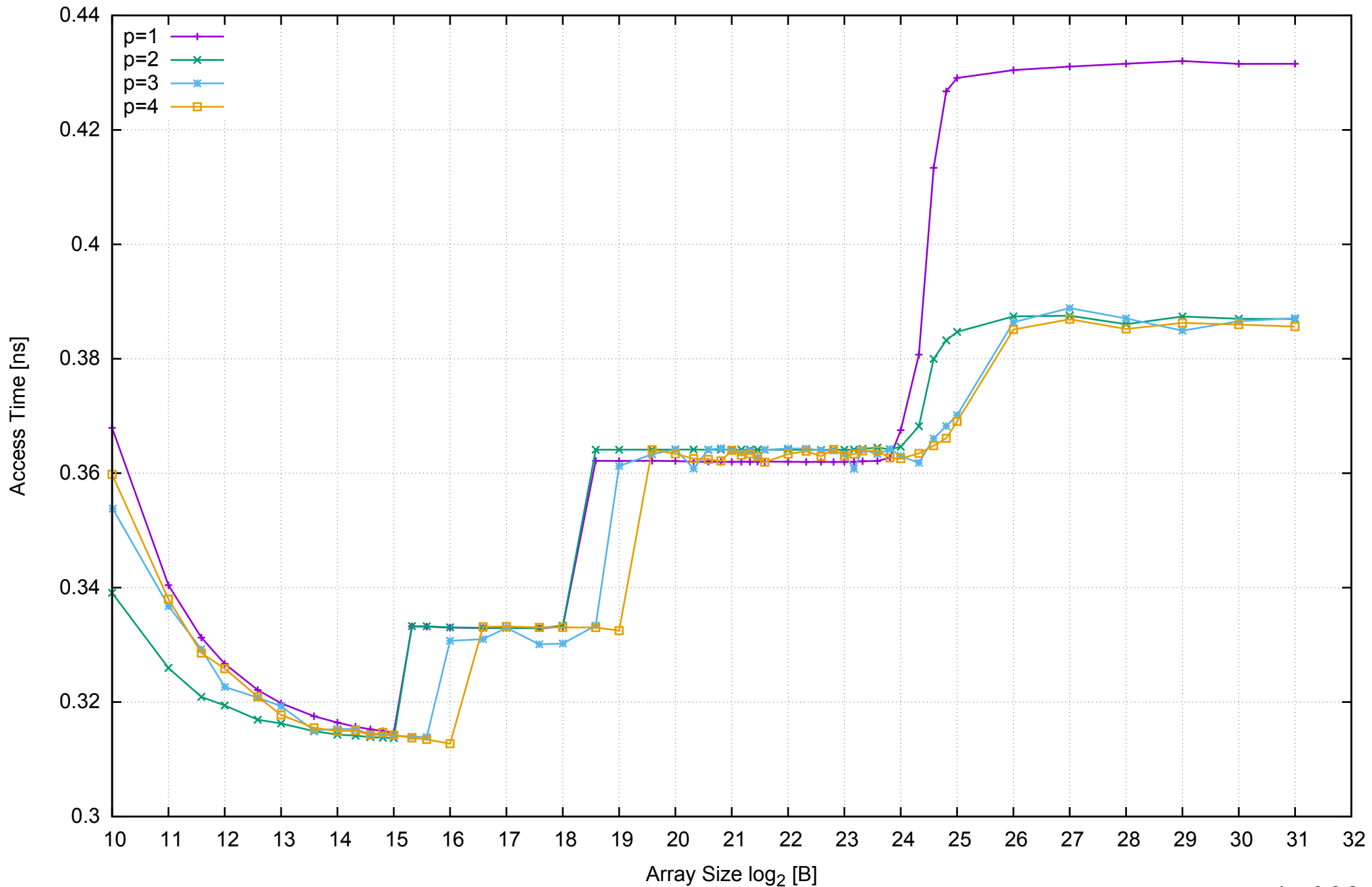




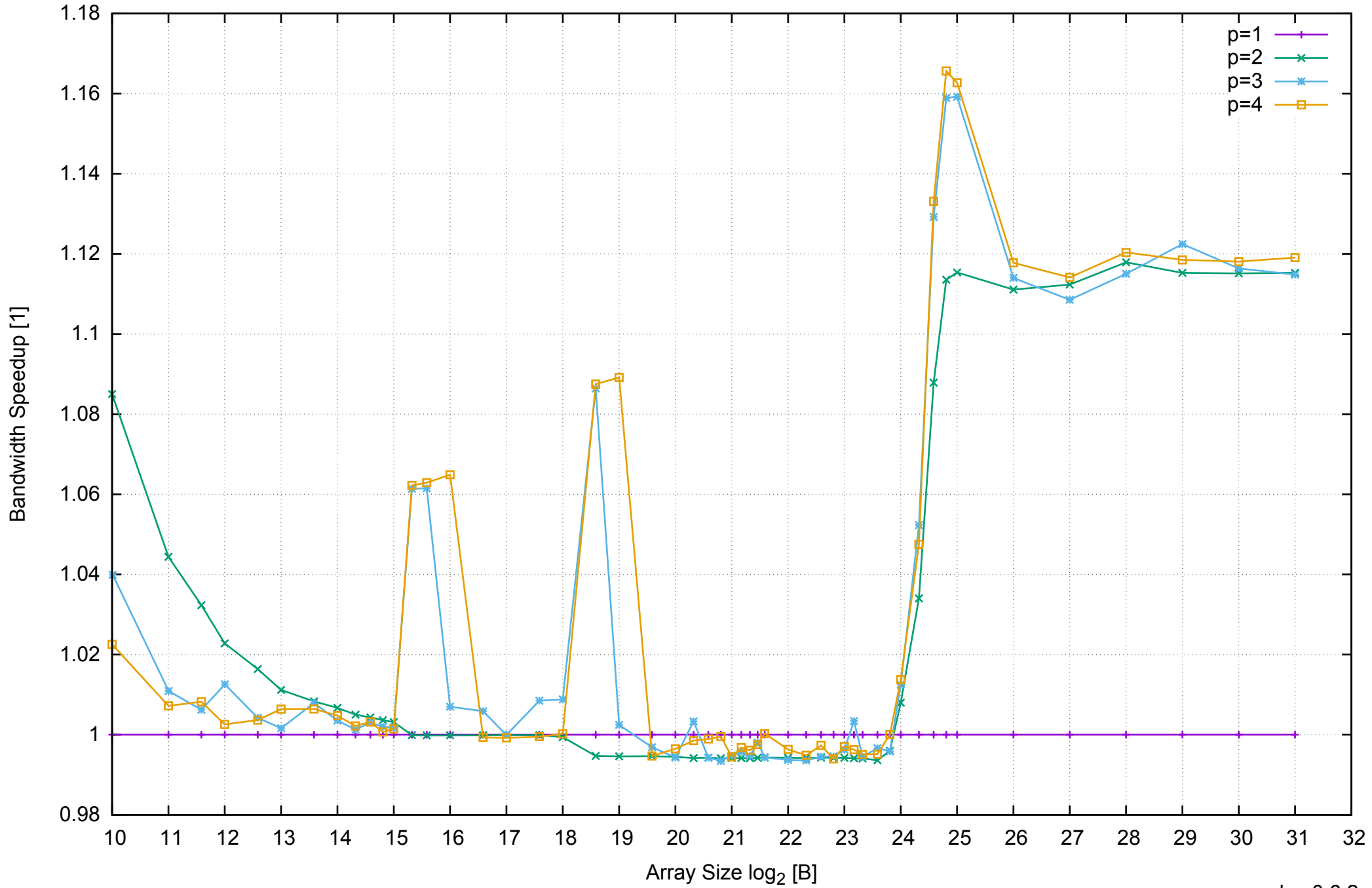
AWS c4.large - Intel Xeon E5-2666 v3 2.90 GHz 3.75GB - Parallel Memory Bandwidth - ScanWrite32PtrSimpleLoop

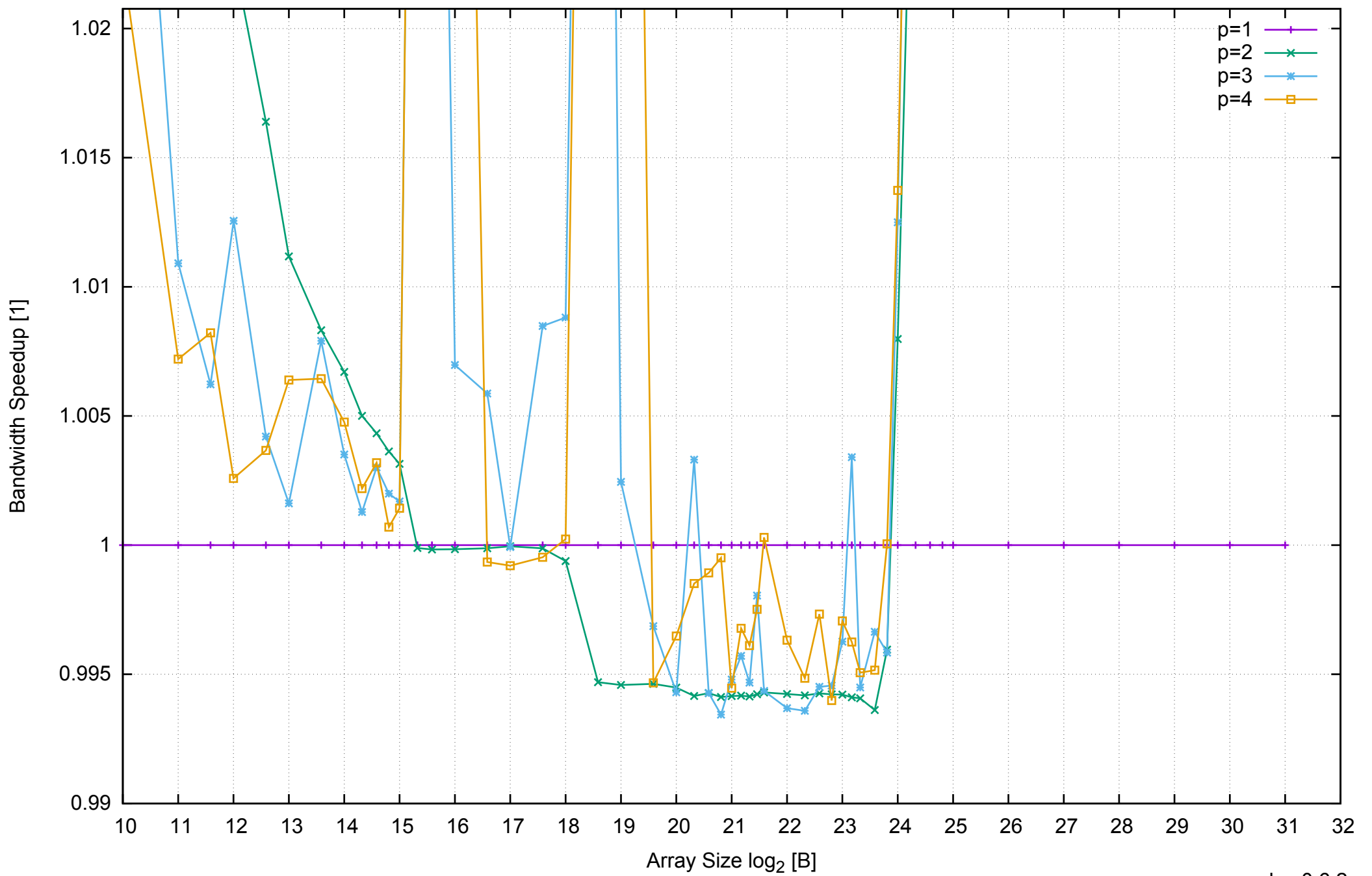


AWS c4.large - Intel Xeon E5-2666 v3 2.90 GHz 3.75GB - Parallel Memory Access Time - ScanWrite32PtrSimpleLoop



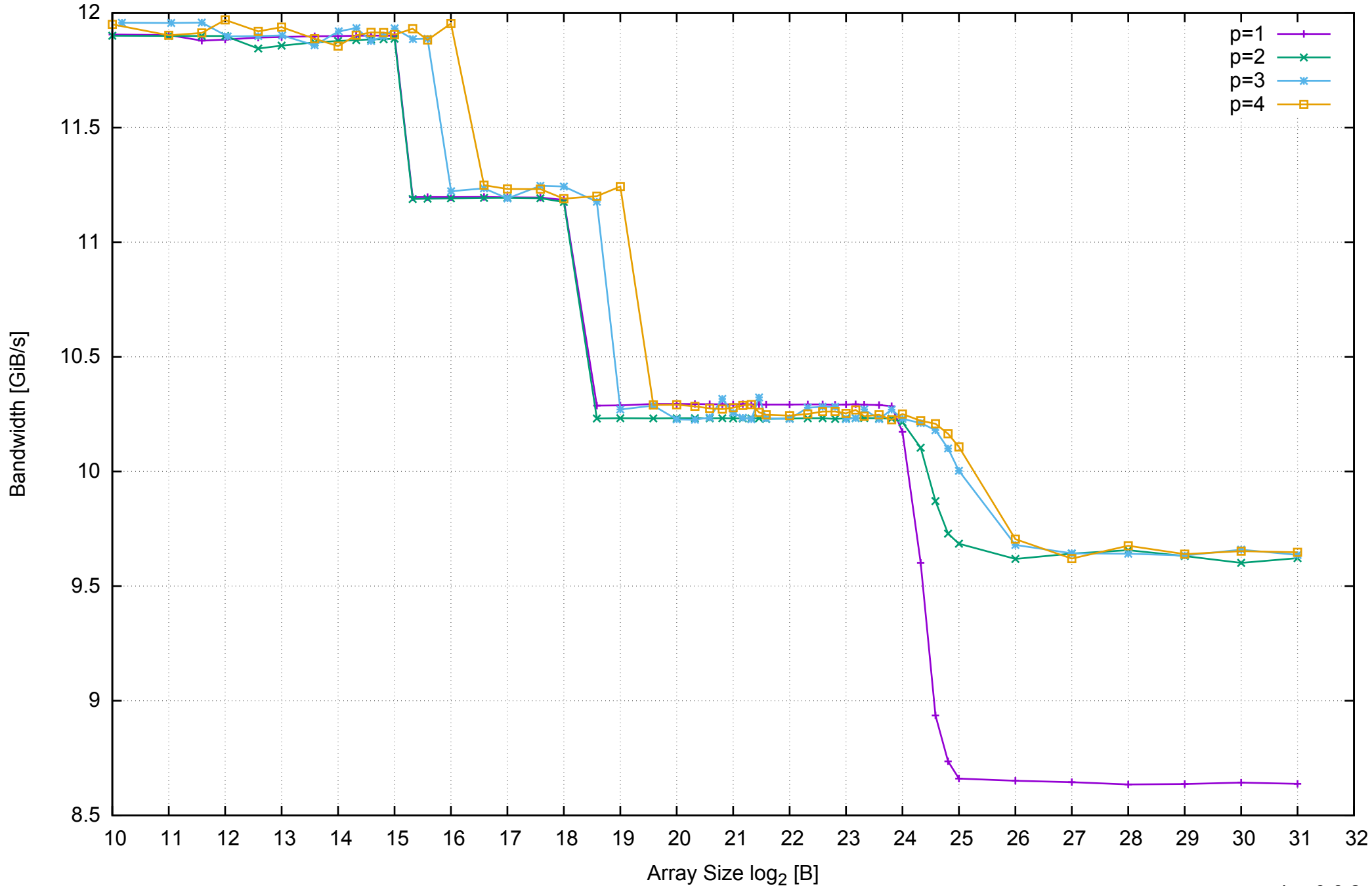
AWS c4.large - Intel Xeon E5-2666 v3 2.90 GHz 3.75GB - Speedup of Parallel Memory Bandwidth - ScanWrite32PtrSimpleLoop



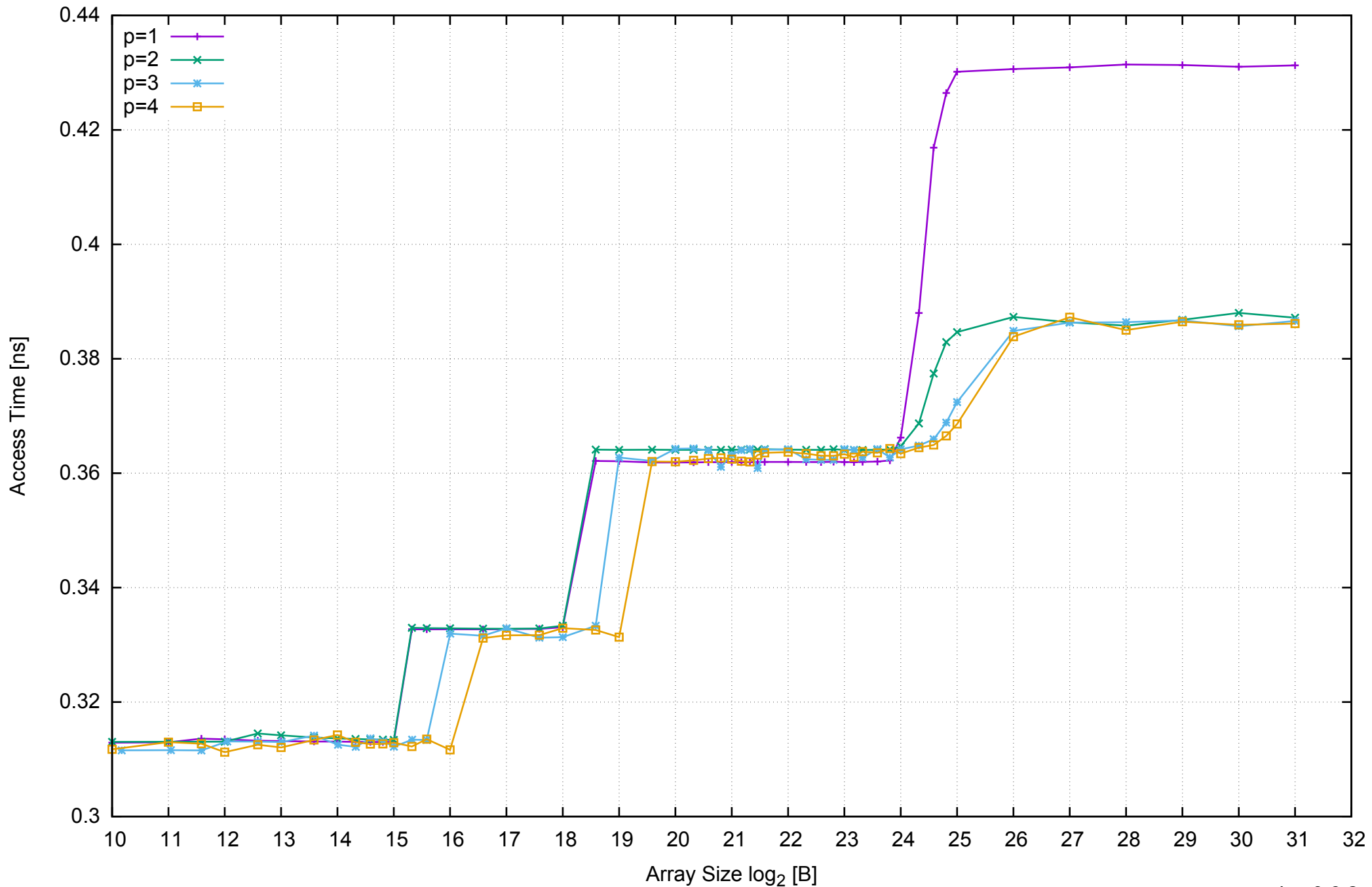




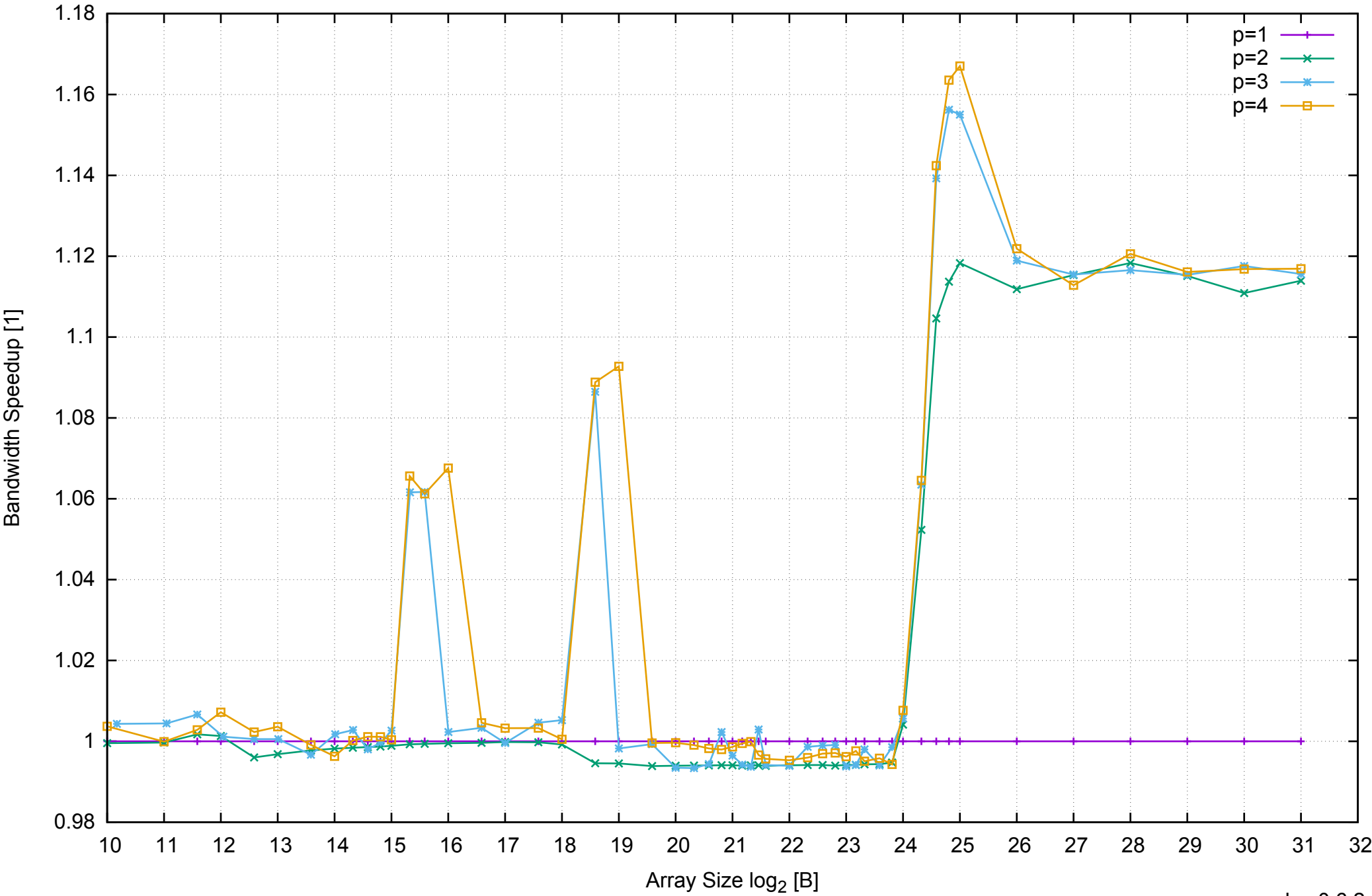
AWS c4.large - Intel Xeon E5-2666 v3 2.90 GHz 3.75GB - Parallel Memory Bandwidth - ScanWrite32PtrUnrollLoop

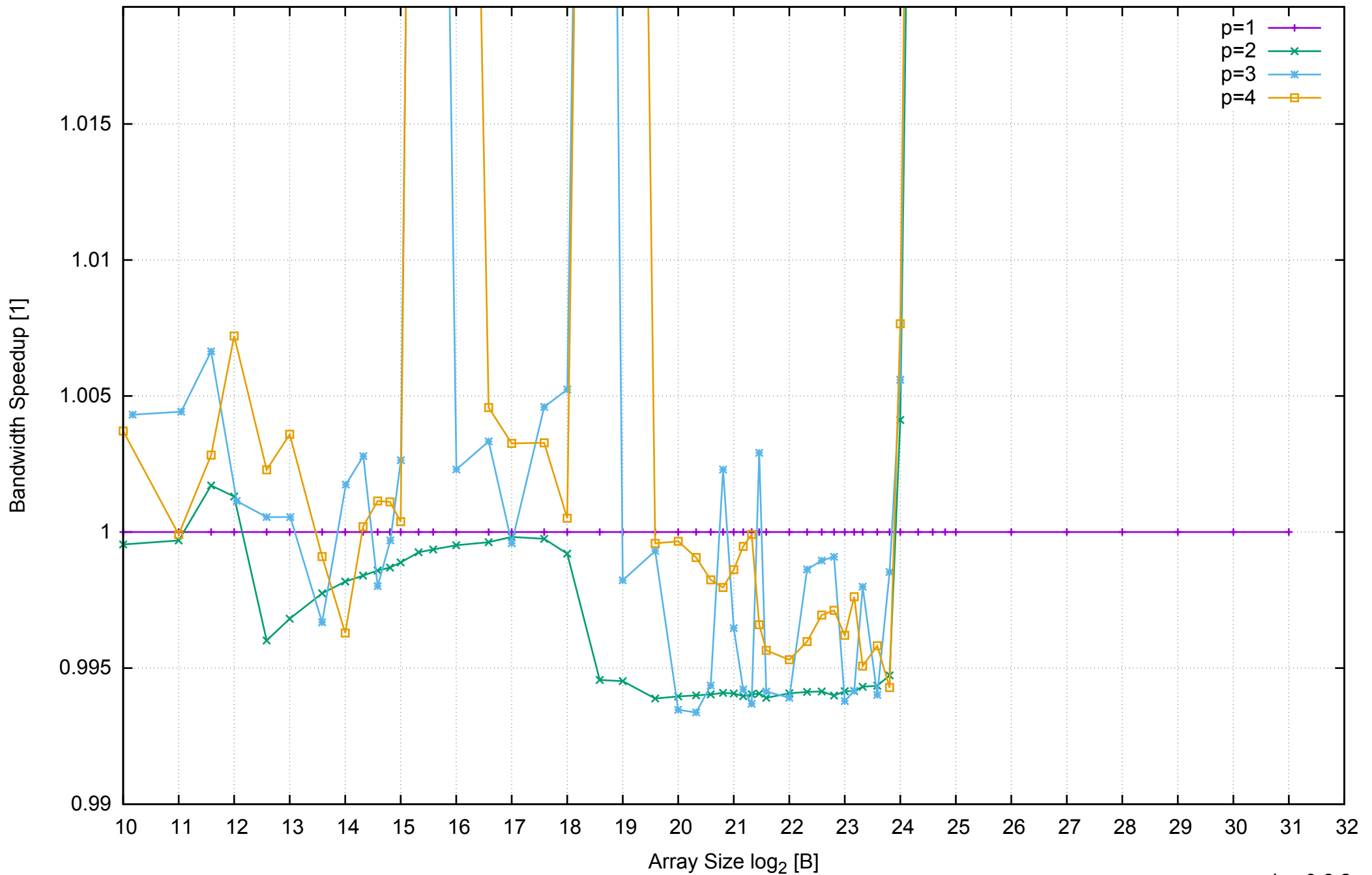


AWS c4.large - Intel Xeon E5-2666 v3 2.90 GHz 3.75GB - Parallel Memory Access Time - ScanWrite32PtrUnrollLoop

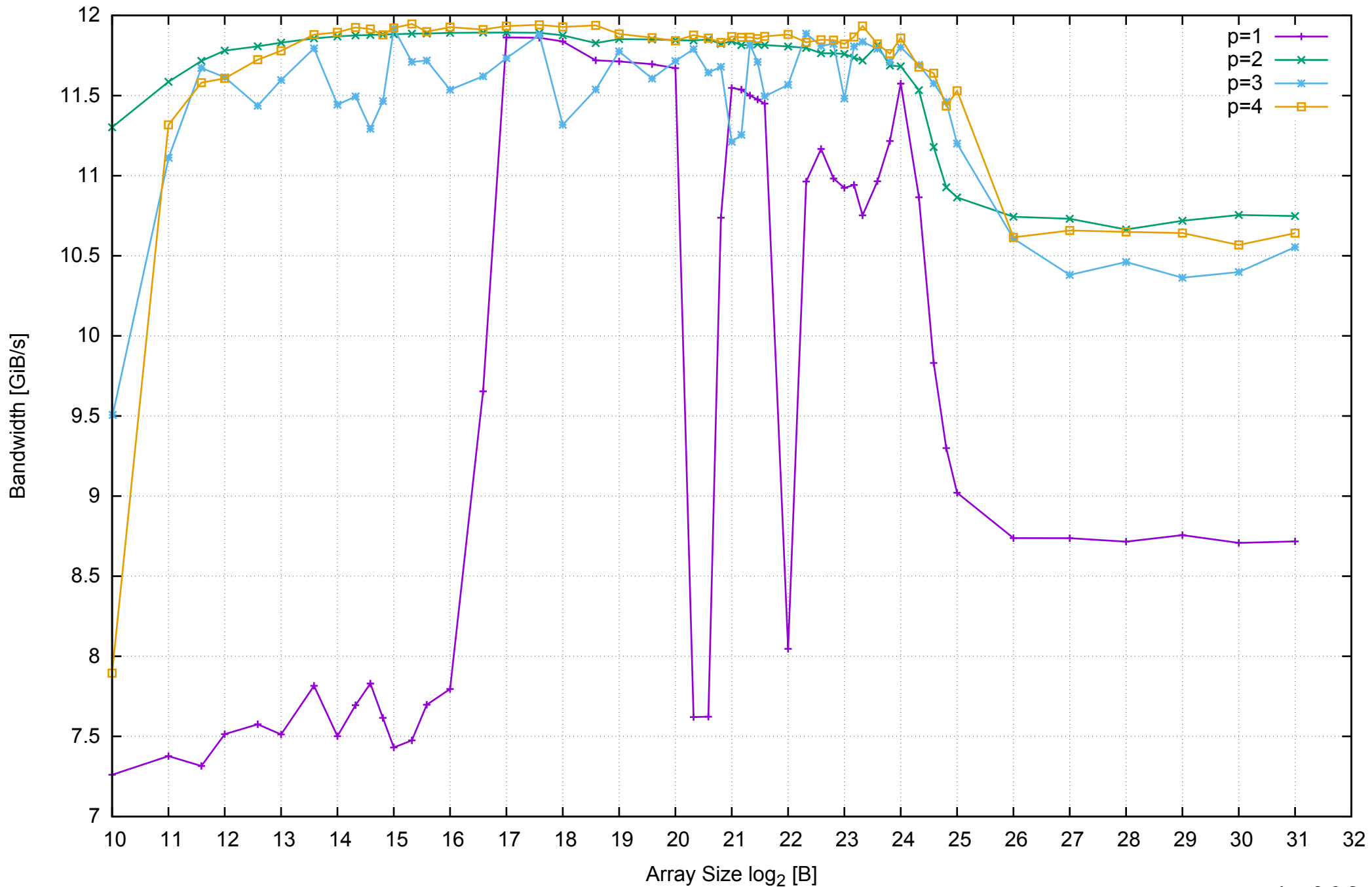


AWS c4.large - Intel Xeon E5-2666 v3 2.90 GHz 3.75GB - Speedup of Parallel Memory Bandwidth - ScanWrite32PtrUnrollLoop

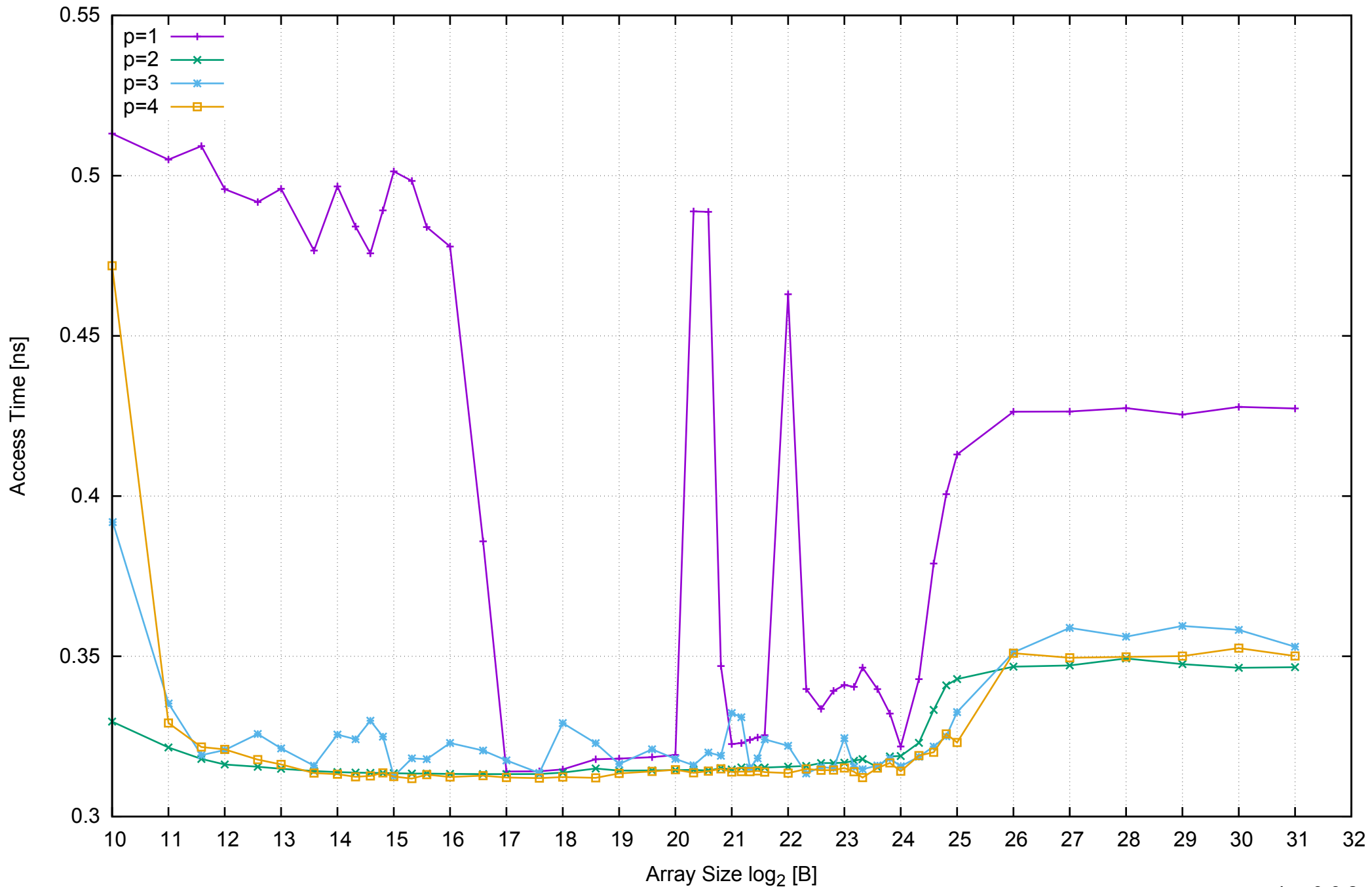




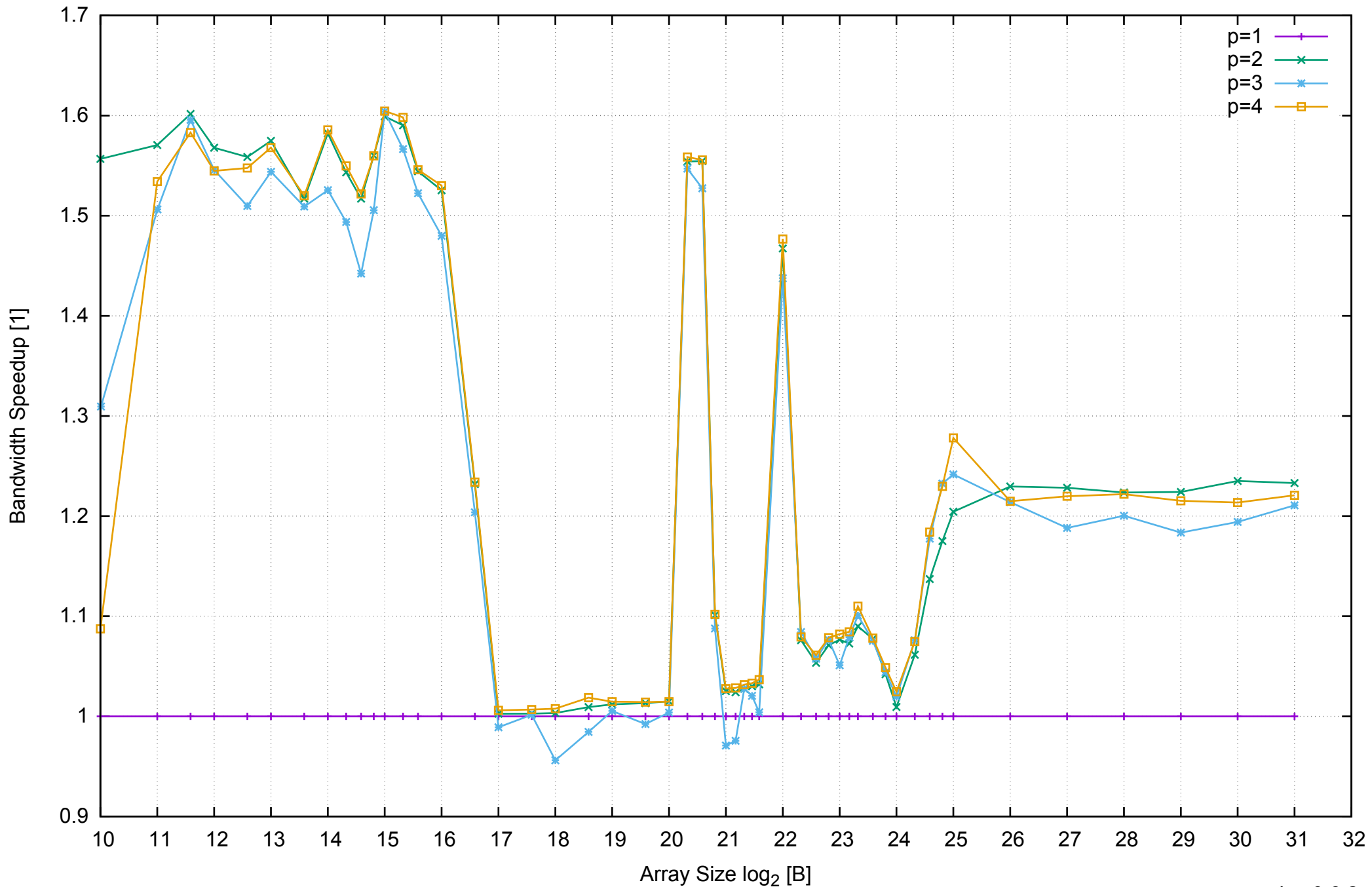
AWS c4.large - Intel Xeon E5-2666 v3 2.90 GHz 3.75GB - Parallel Memory Bandwidth - ScanRead32PtrSimpleLoop

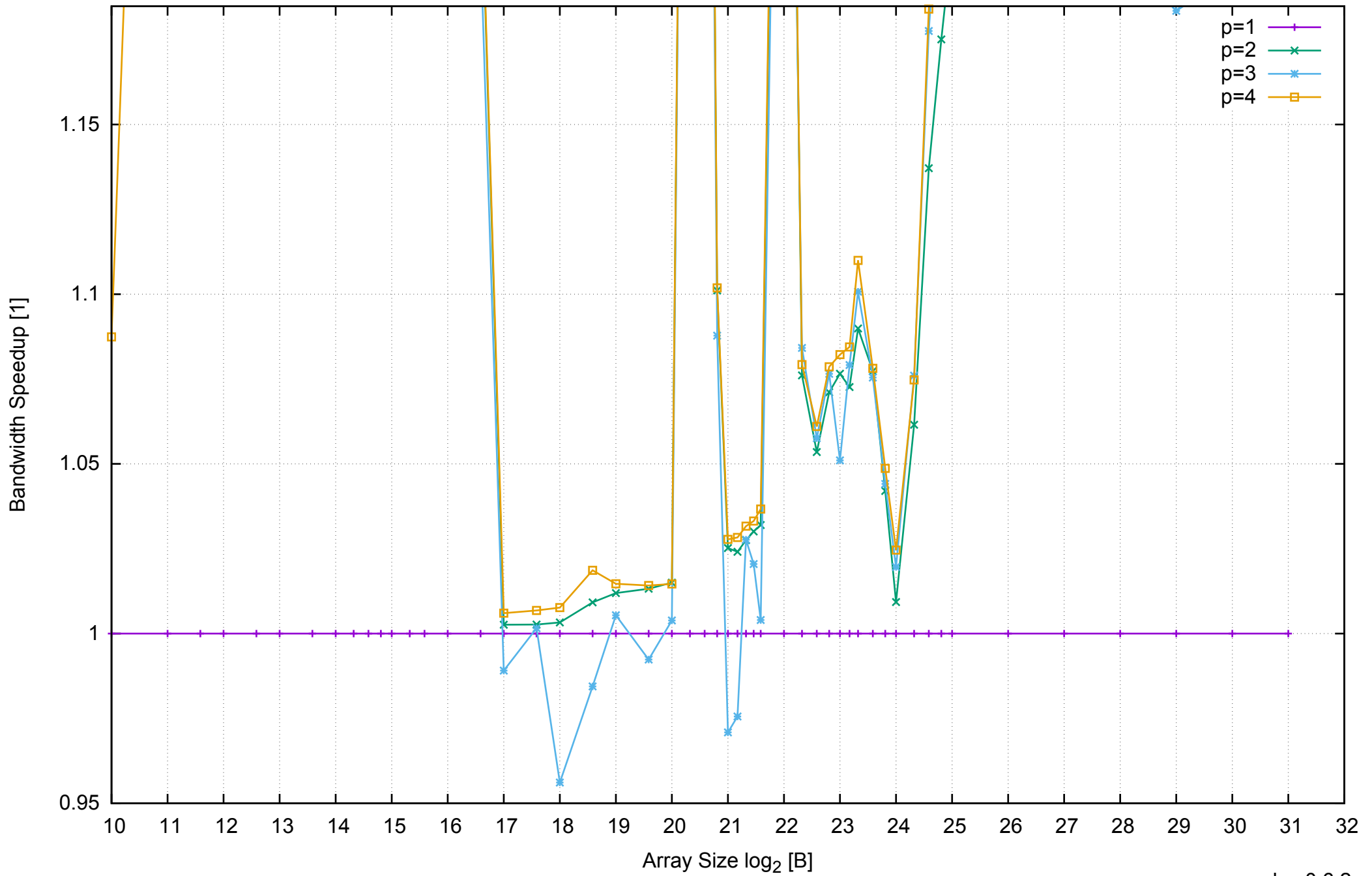


AWS c4.large - Intel Xeon E5-2666 v3 2.90 GHz 3.75GB - Parallel Memory Access Time - ScanRead32PtrSimpleLoop



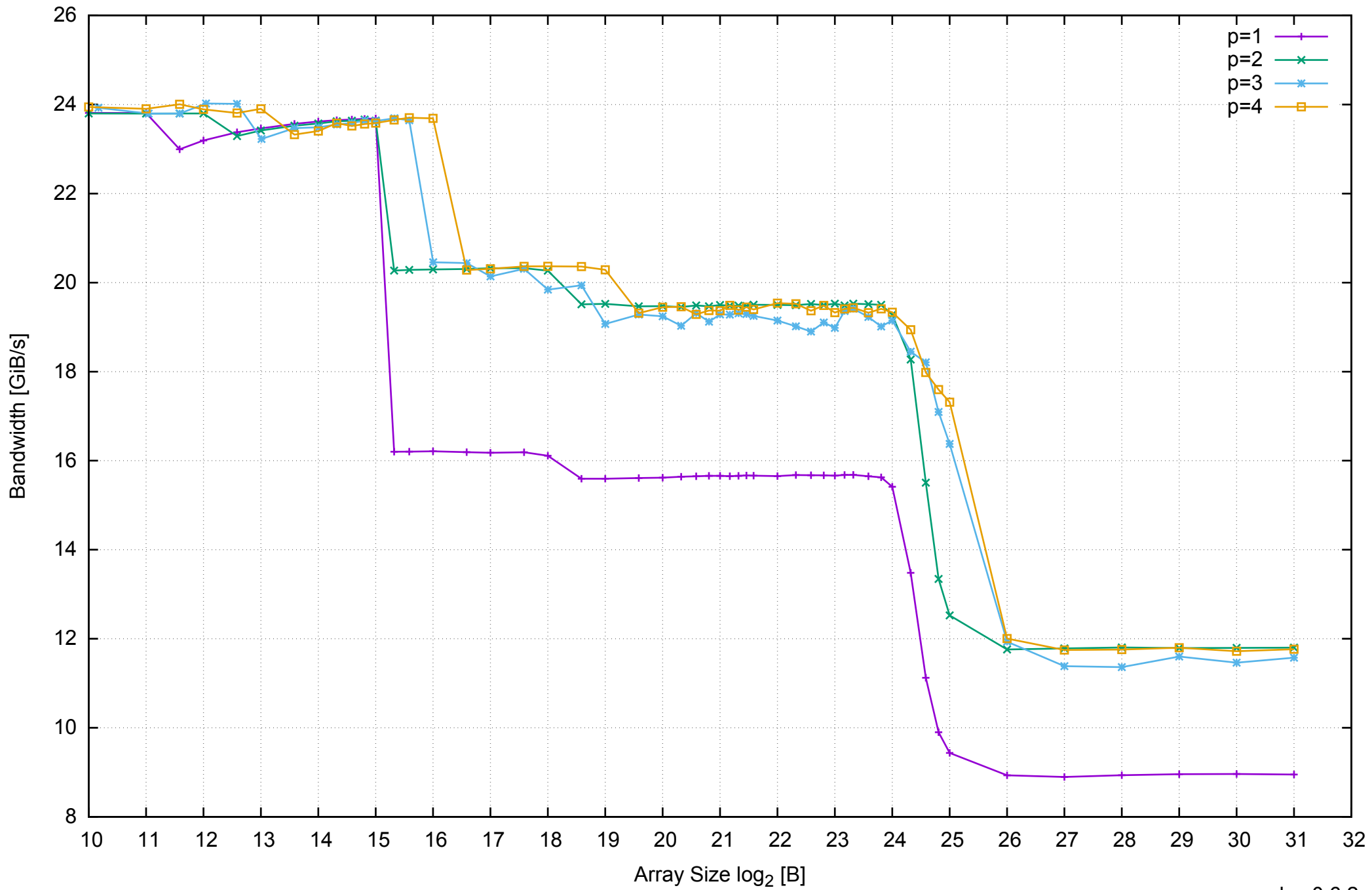
AWS c4.large - Intel Xeon E5-2666 v3 2.90 GHz 3.75GB - Speedup of Parallel Memory Bandwidth - ScanRead32PtrSimpleLoop



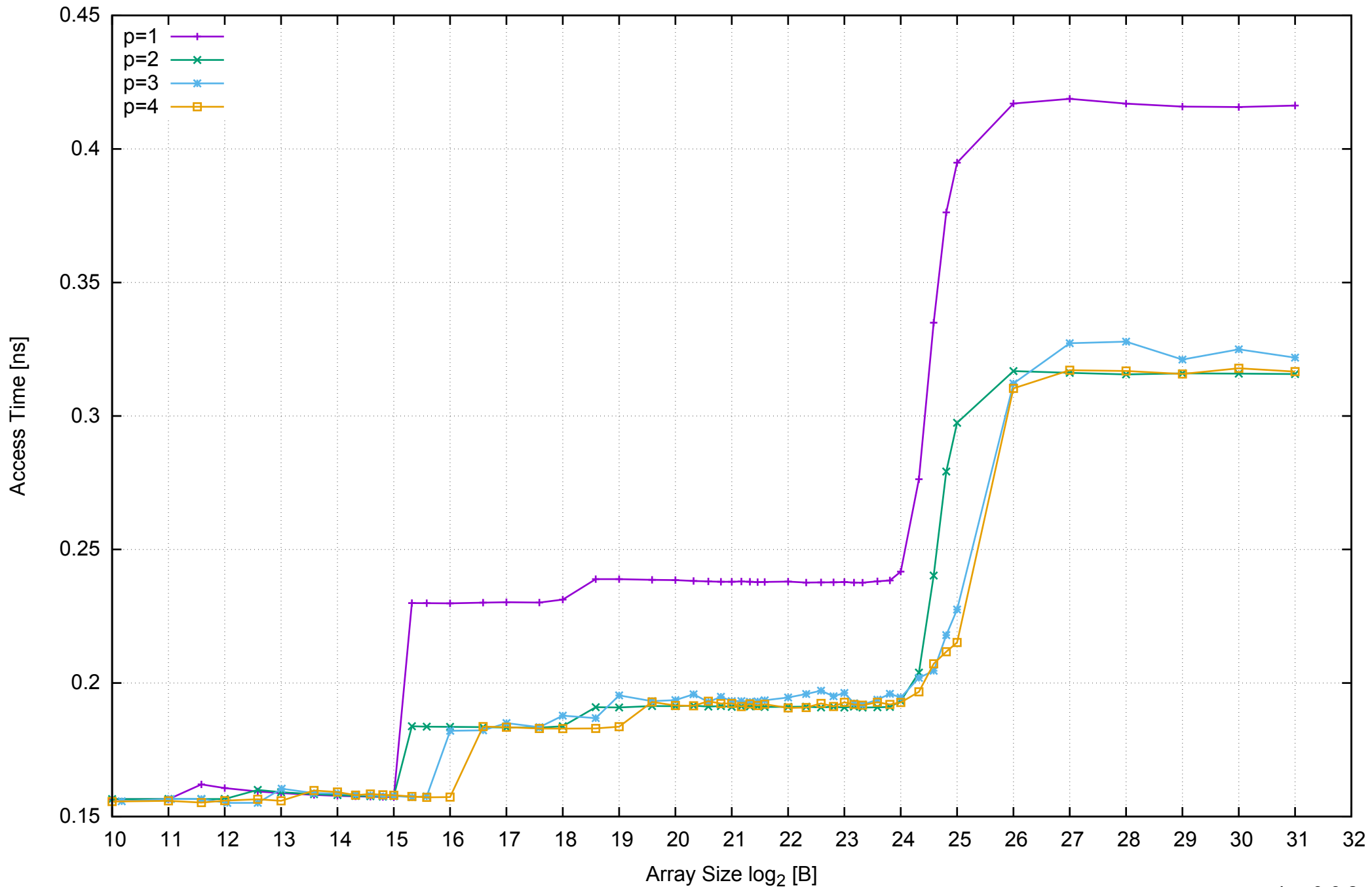




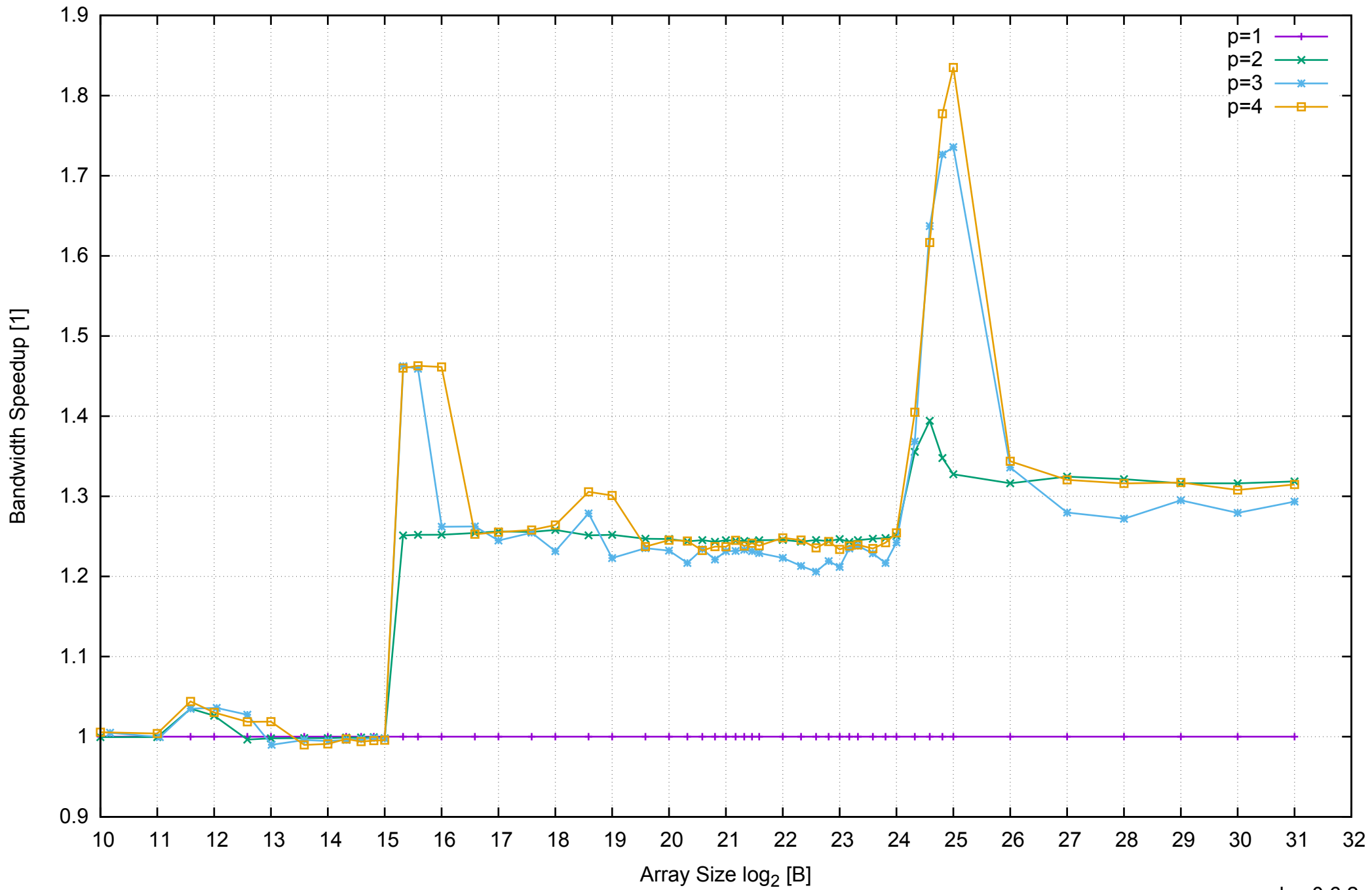
AWS c4.large - Intel Xeon E5-2666 v3 2.90 GHz 3.75GB - Parallel Memory Bandwidth - ScanRead32PtrUnrollLoop

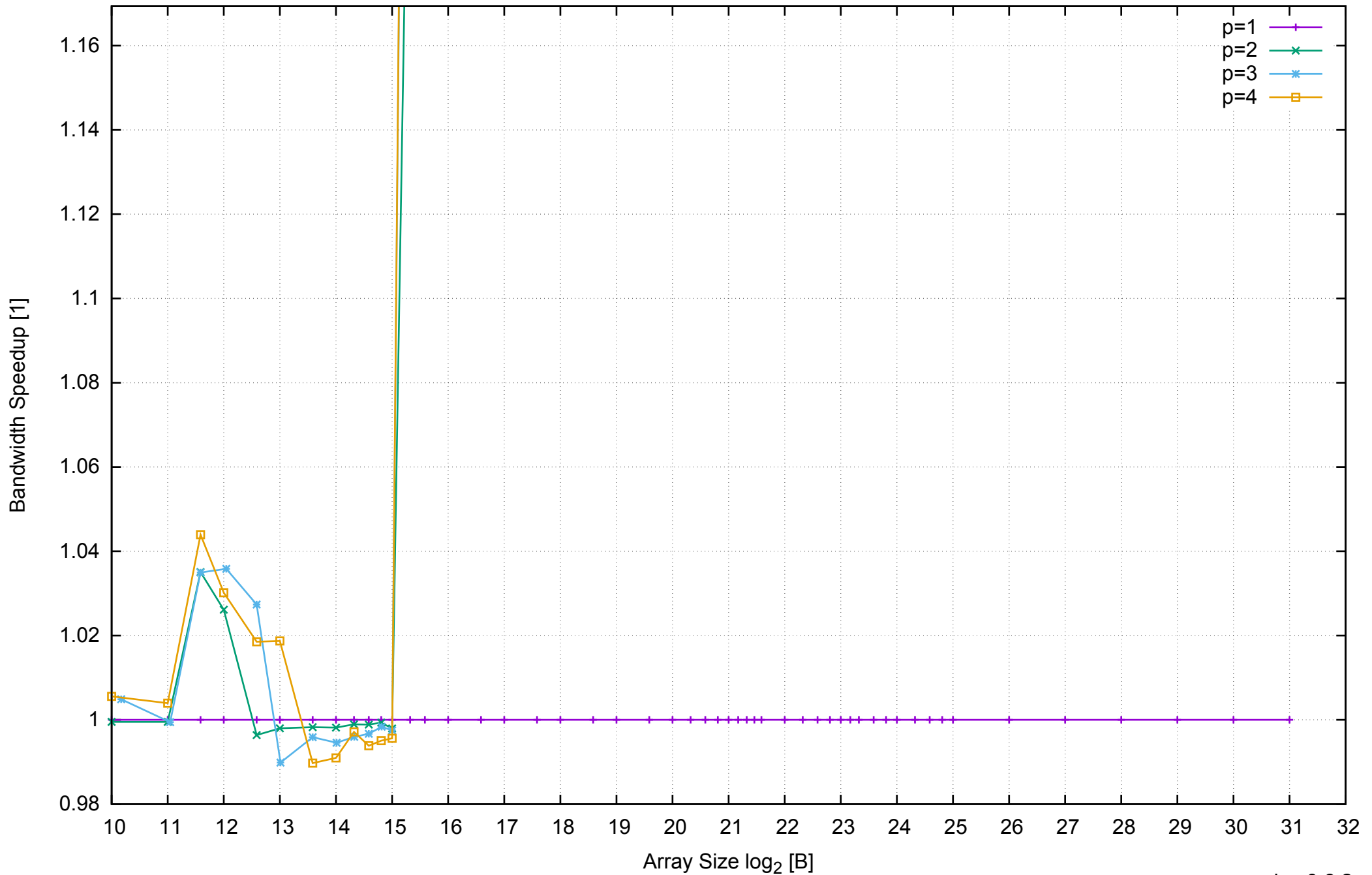


AWS c4.large - Intel Xeon E5-2666 v3 2.90 GHz 3.75GB - Parallel Memory Access Time - ScanRead32PtrUnrollLoop

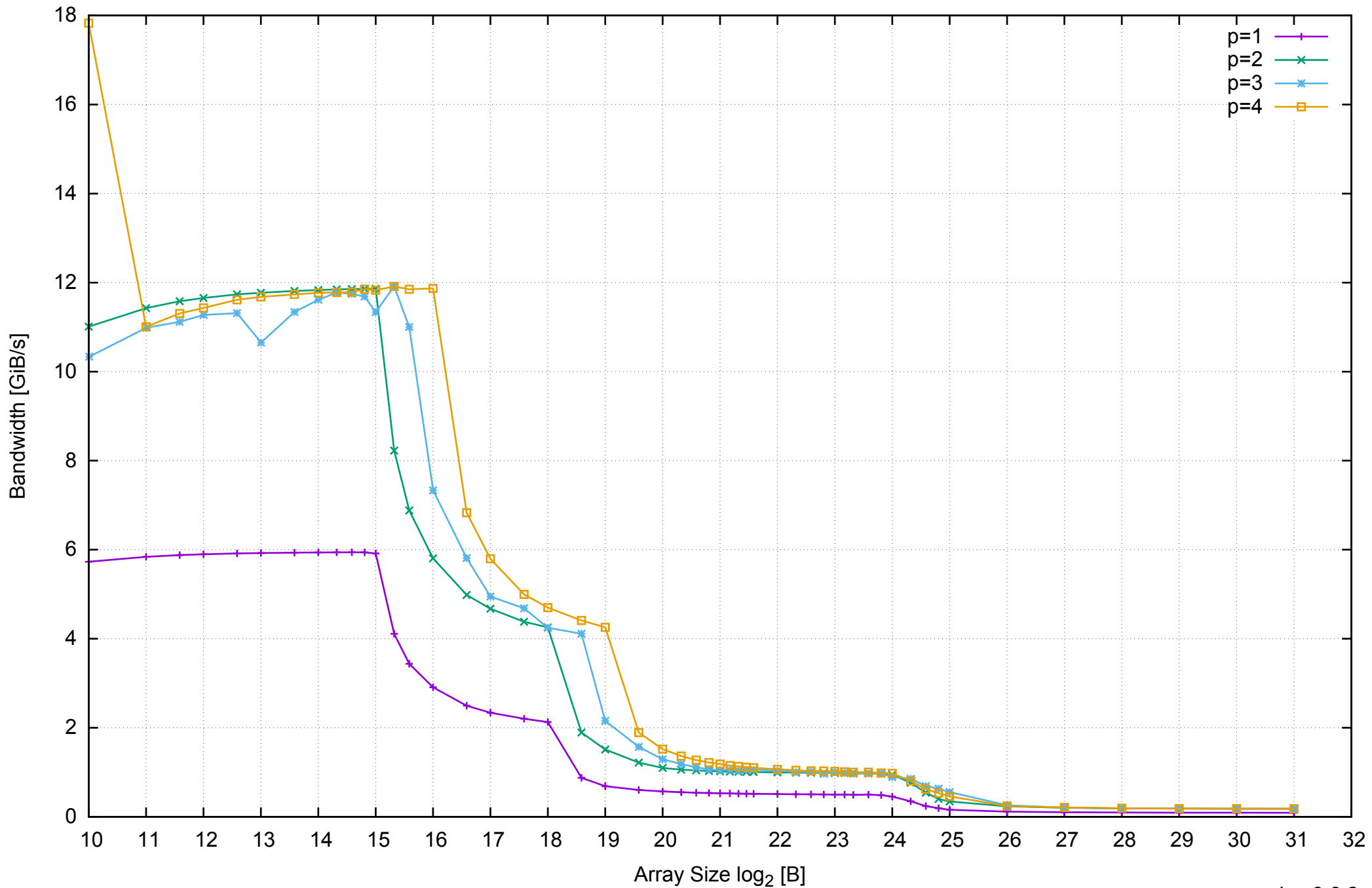


AWS c4.large - Intel Xeon E5-2666 v3 2.90 GHz 3.75GB - Speedup of Parallel Memory Bandwidth - ScanRead32PtrUnrollLoop

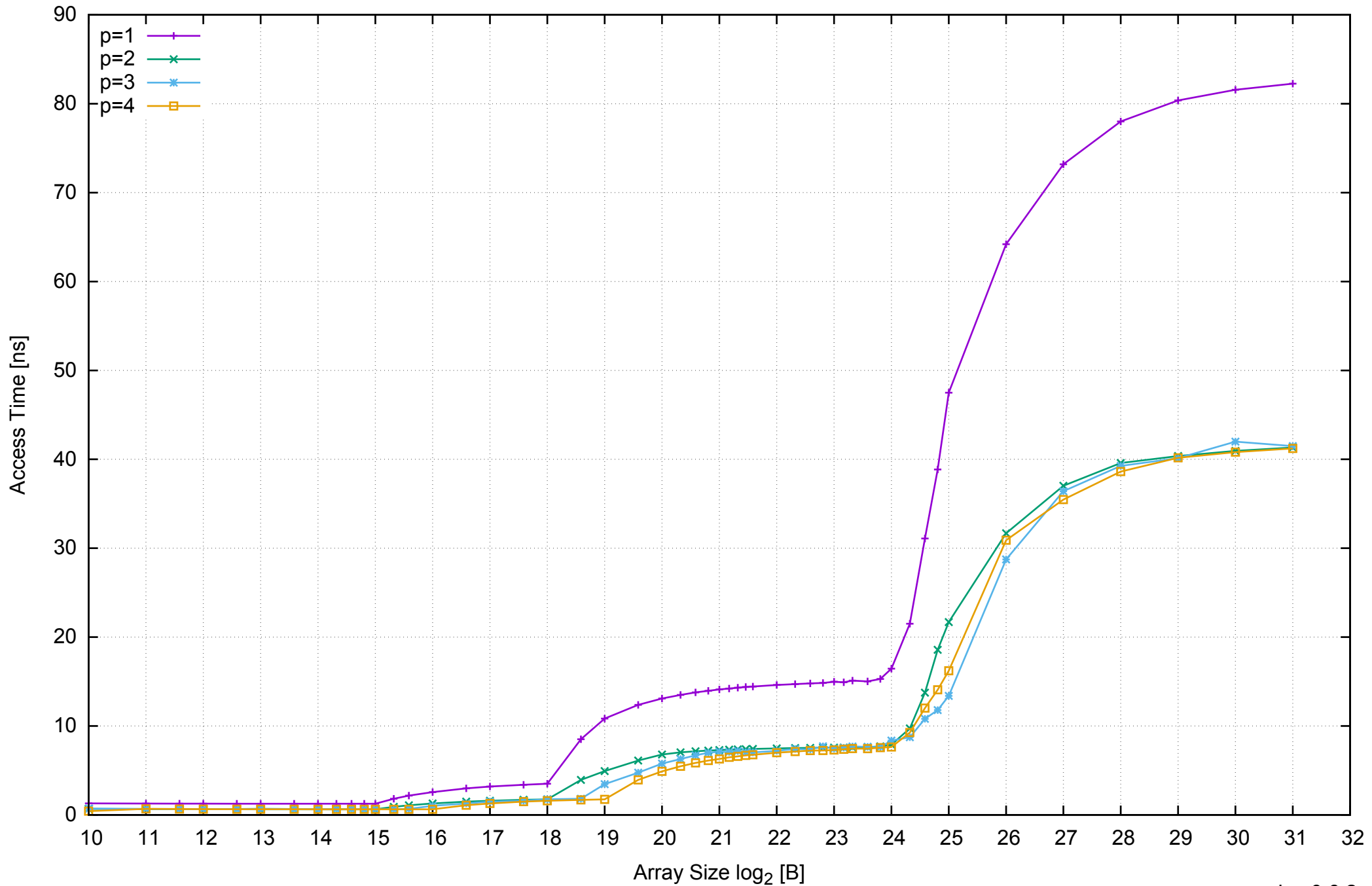




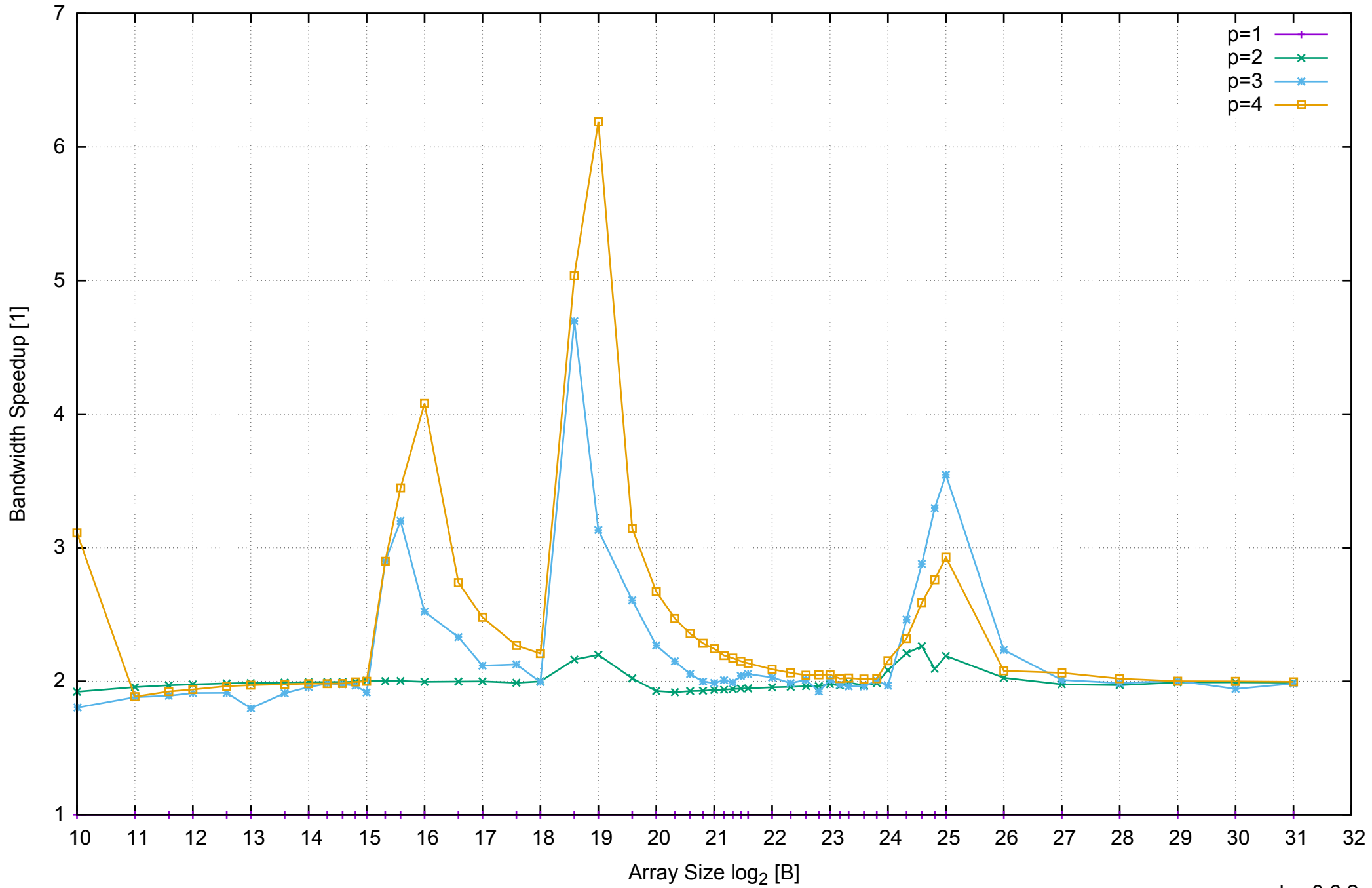
AWS c4.large - Intel Xeon E5-2666 v3 2.90 GHz 3.75GB - Parallel Memory Bandwidth - PermRead64SimpleLoop



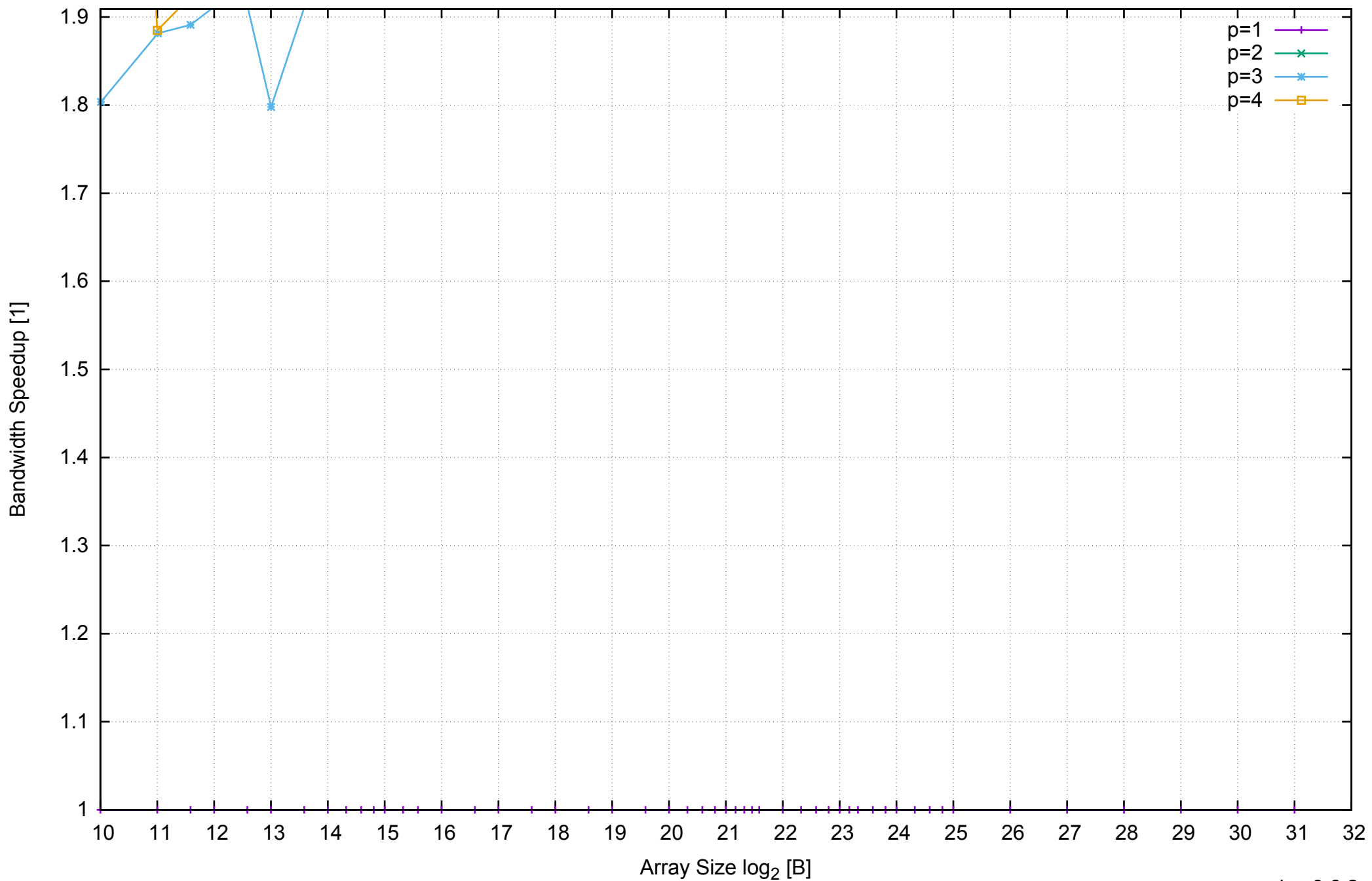
AWS c4.large - Intel Xeon E5-2666 v3 2.90 GHz 3.75GB - Parallel Memory Access Time - PermRead64SimpleLoop



AWS c4.large - Intel Xeon E5-2666 v3 2.90 GHz 3.75GB - Speedup of Parallel Memory Bandwidth - PermRead64SimpleLoop

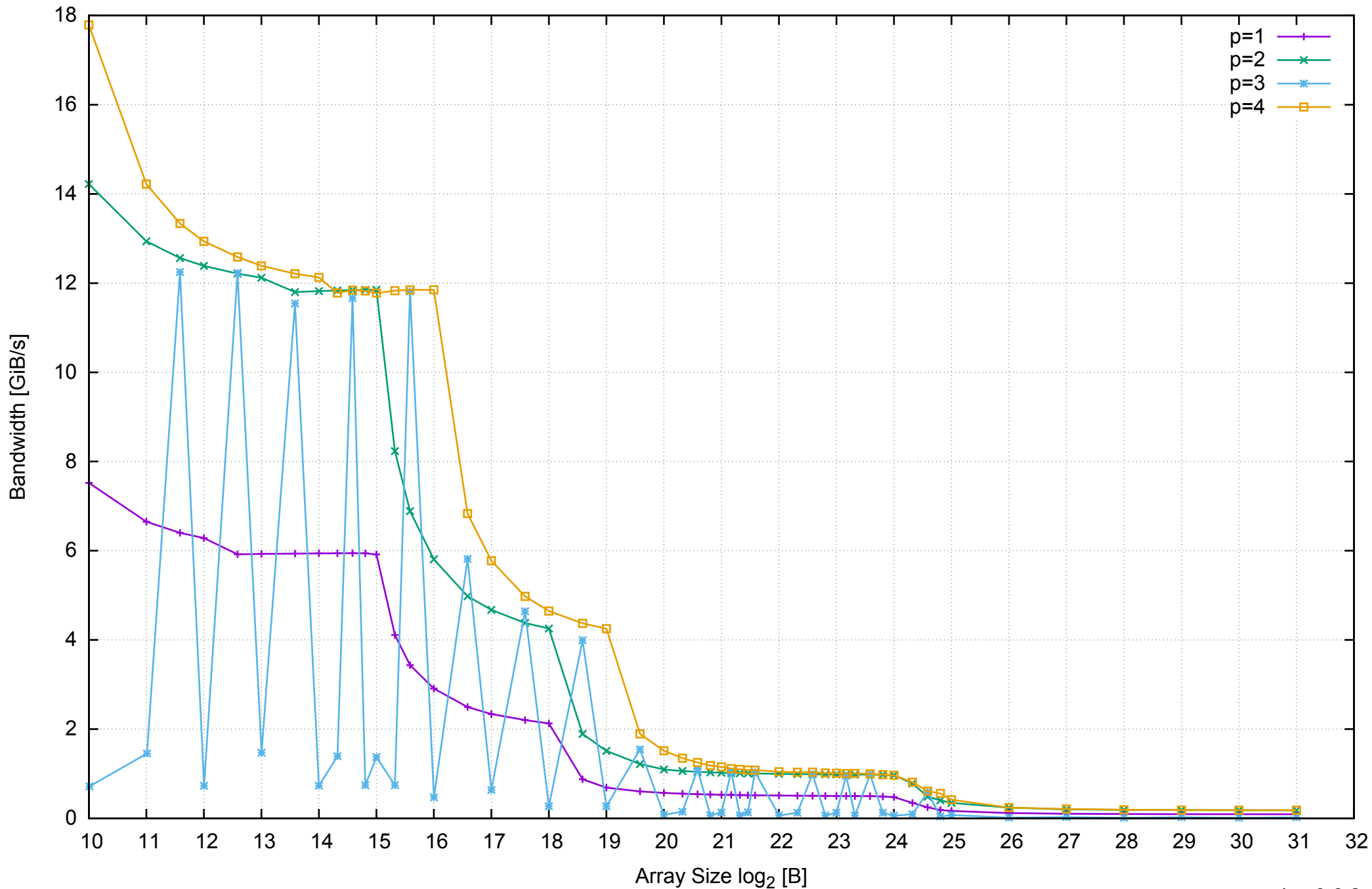


AWS c4.large - Intel Xeon E5-2666 v3 2.90 GHz 3.75GB - Speedup of Parallel Memory Bandwidth (enlarged) - PermRead64SimpleLoop

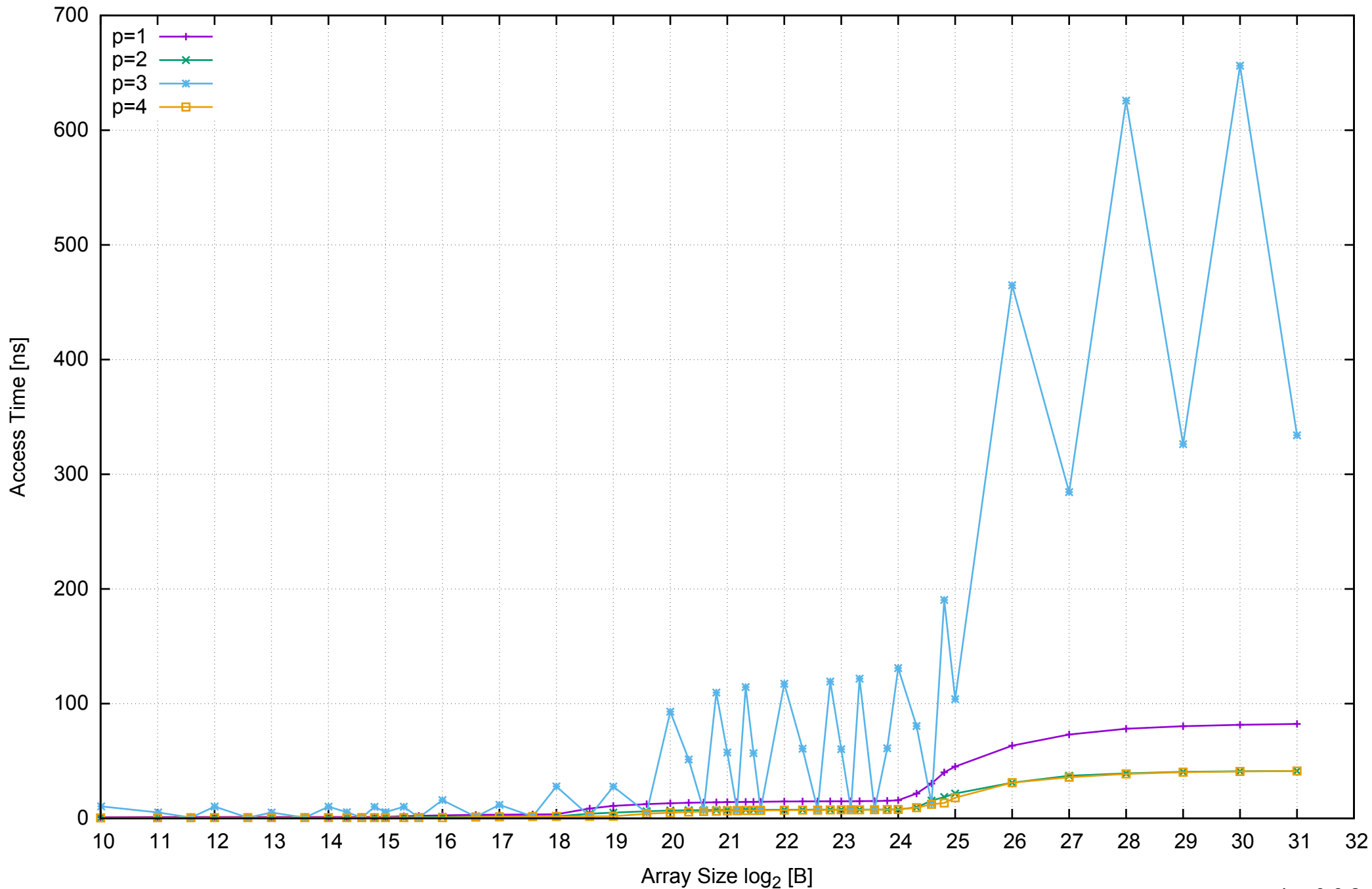




AWS c4.large - Intel Xeon E5-2666 v3 2.90 GHz 3.75GB - Parallel Memory Bandwidth - PermRead64UnrollLoop



AWS c4.large - Intel Xeon E5-2666 v3 2.90 GHz 3.75GB - Parallel Memory Access Time - PermRead64UnrollLoop



AWS c4.large - Intel Xeon E5-2666 v3 2.90 GHz 3.75GB - Speedup of Parallel Memory Bandwidth - PermRead64UnrollLoop

