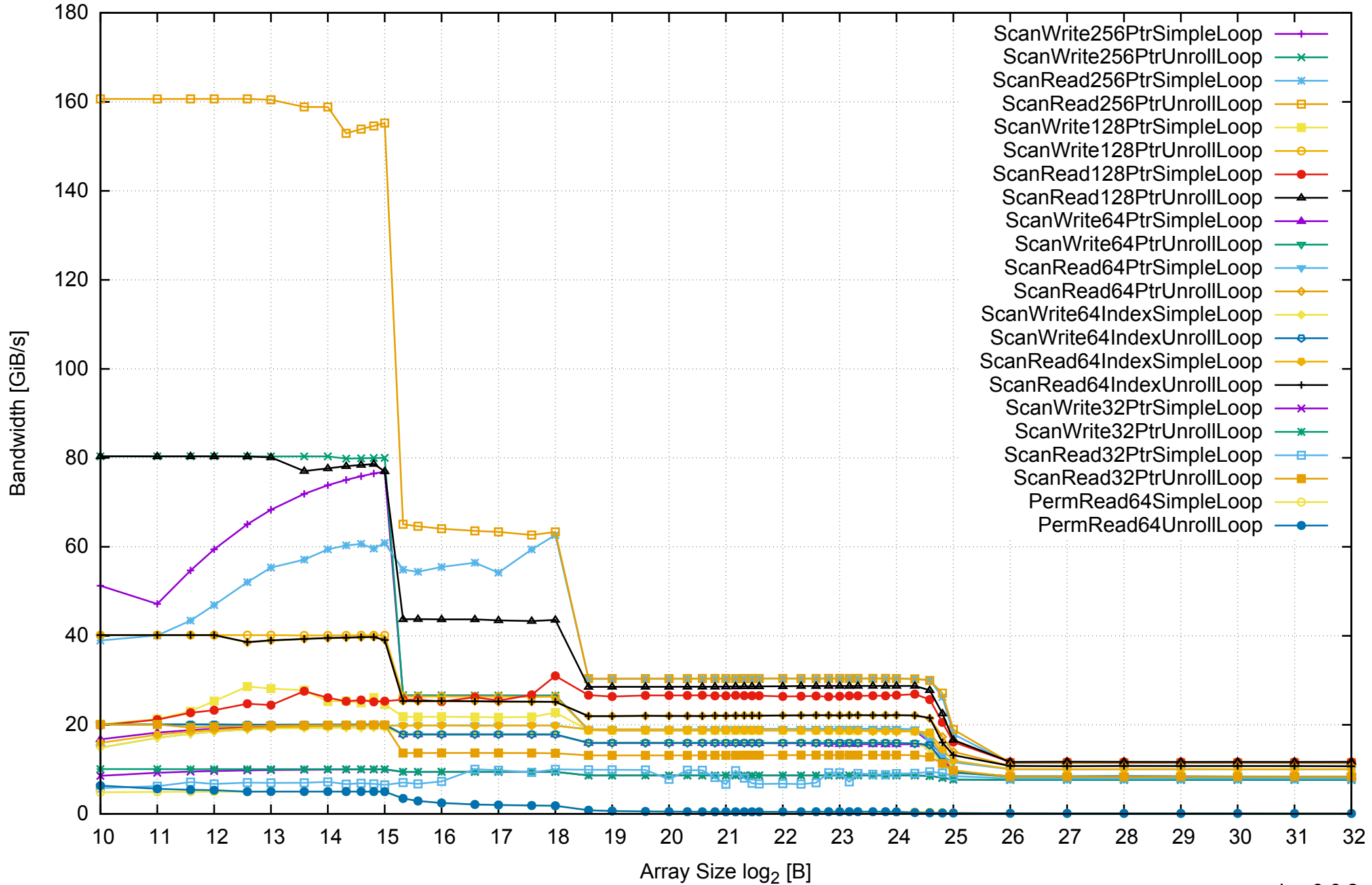
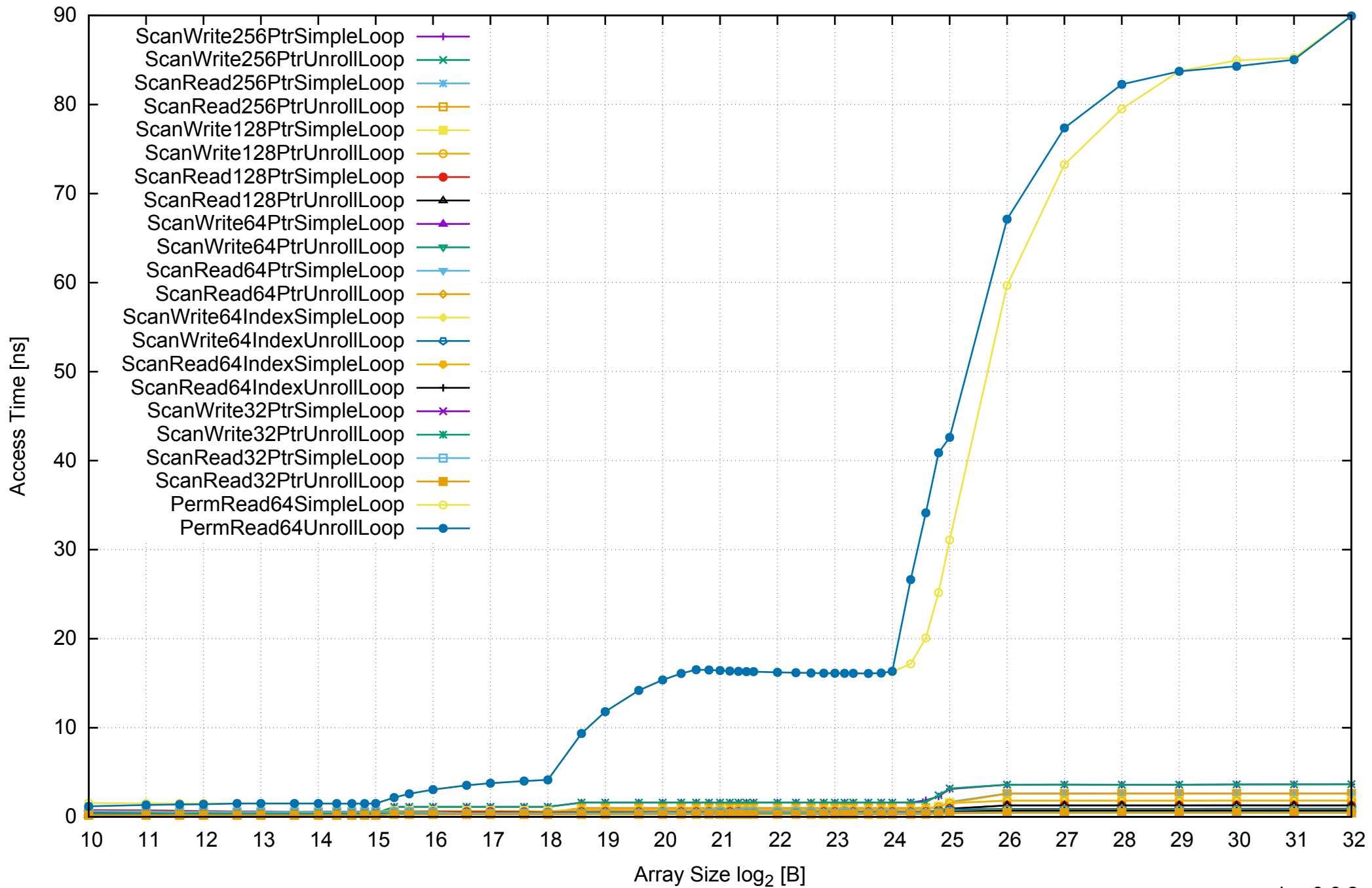


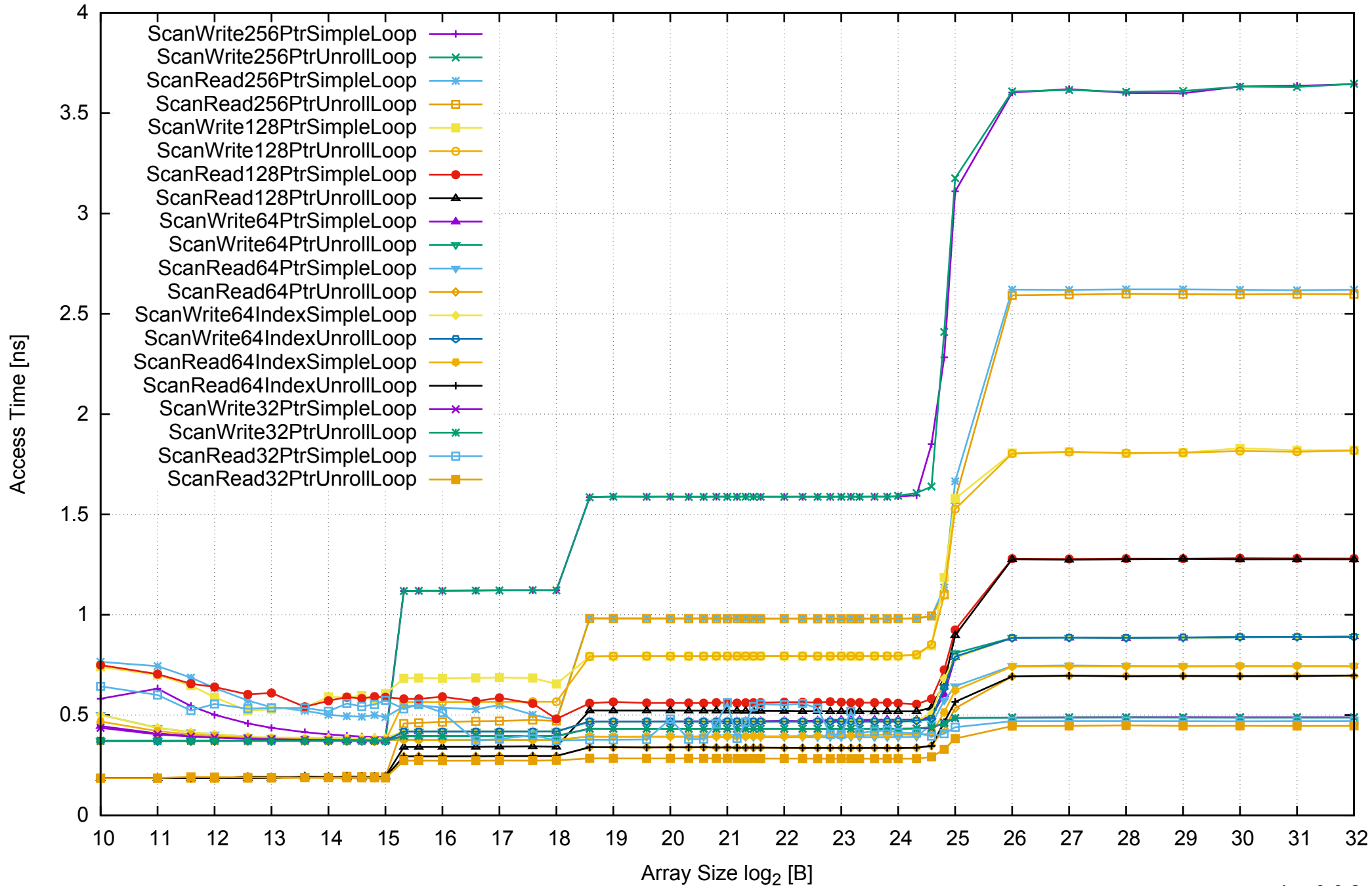
AWS m4.large - Intel Xeon E5-2676 v3, 2.40 GHz 8GB - One Thread Memory Bandwidth



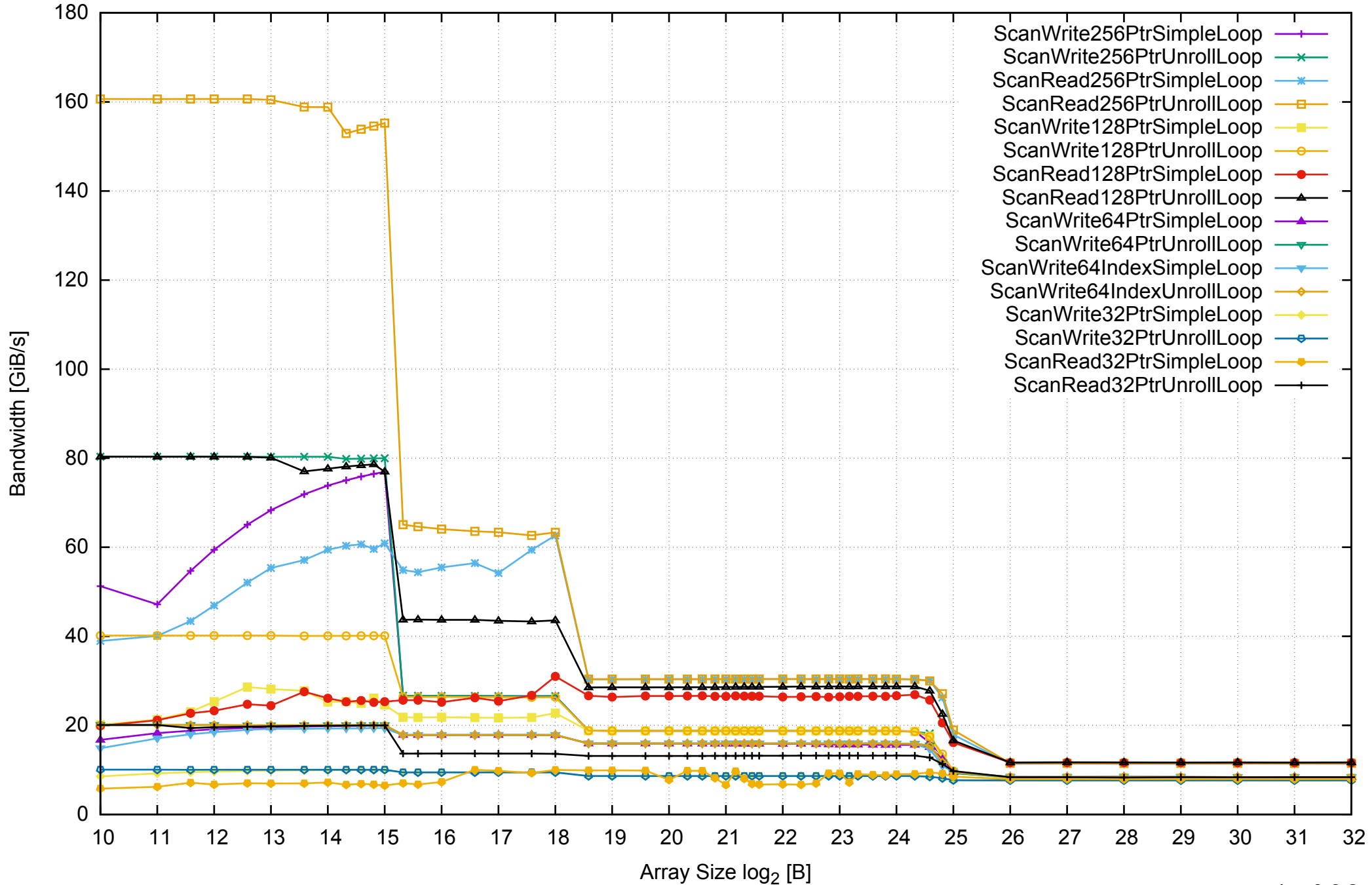
AWS m4.large - Intel Xeon E5-2676 v3, 2.40 GHz 8GB - One Thread Memory Latency (Access Time)



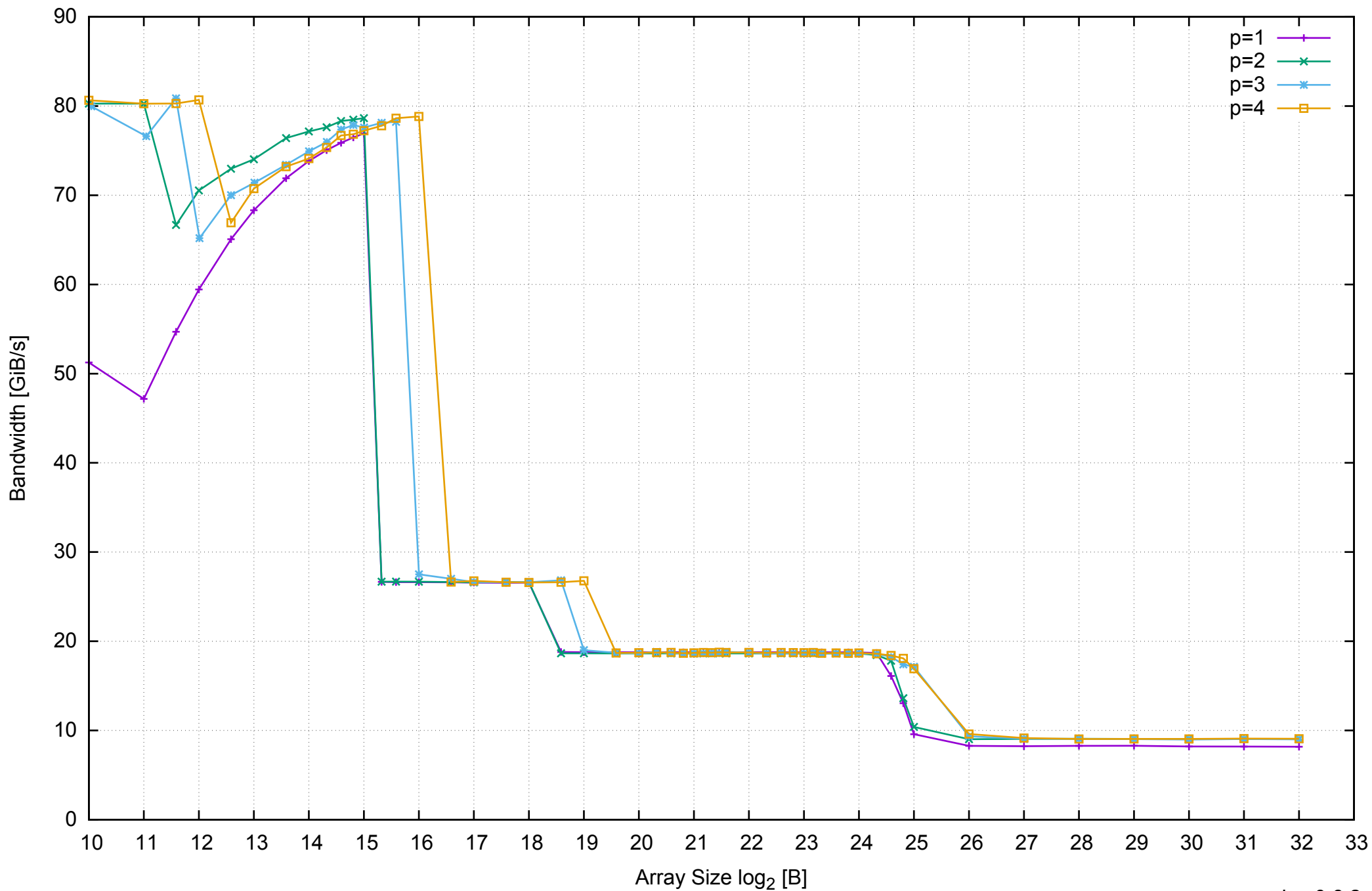
AWS m4.large - Intel Xeon E5-2676 v3, 2.40 GHz 8GB - One Thread Memory Latency (excluding Permutation)



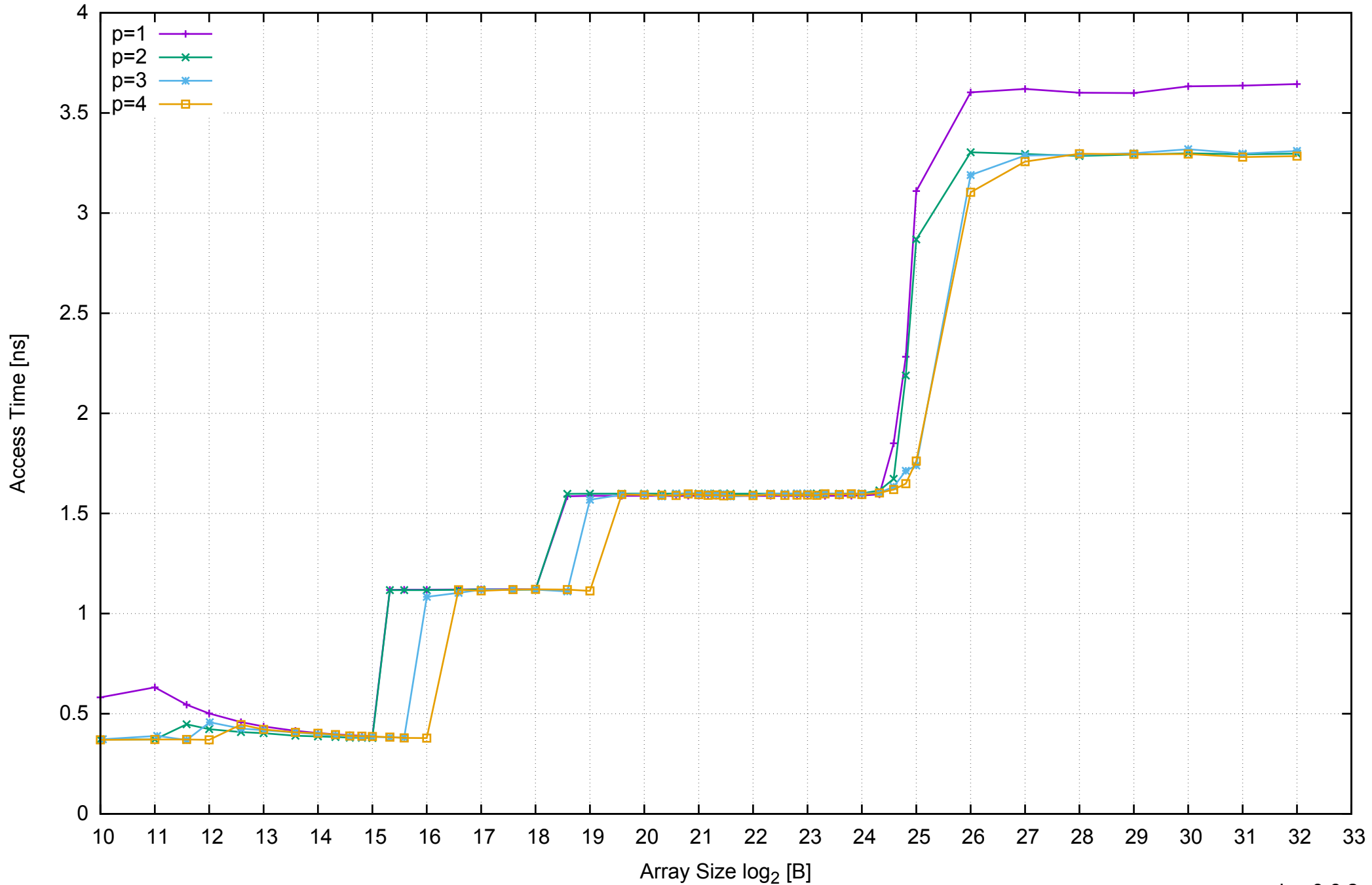
AWS m4.large - Intel Xeon E5-2676 v3, 2.40 GHz 8GB - One Thread Memory Bandwidth (only 64-bit Reads)



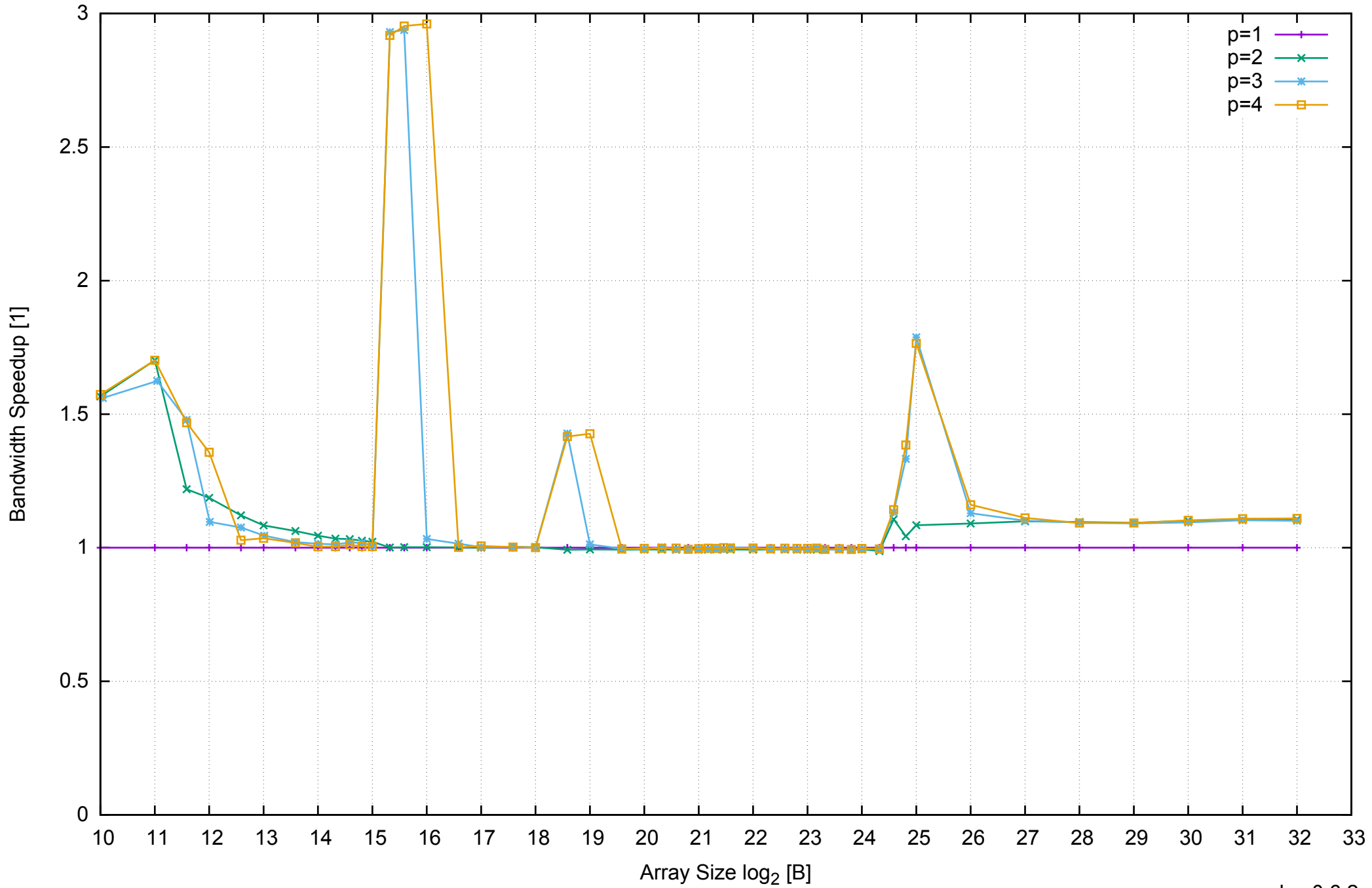
AWS m4.large - Intel Xeon E5-2676 v3, 2.40 GHz 8GB - Parallel Memory Bandwidth - ScanWrite256PtrSimpleLoop



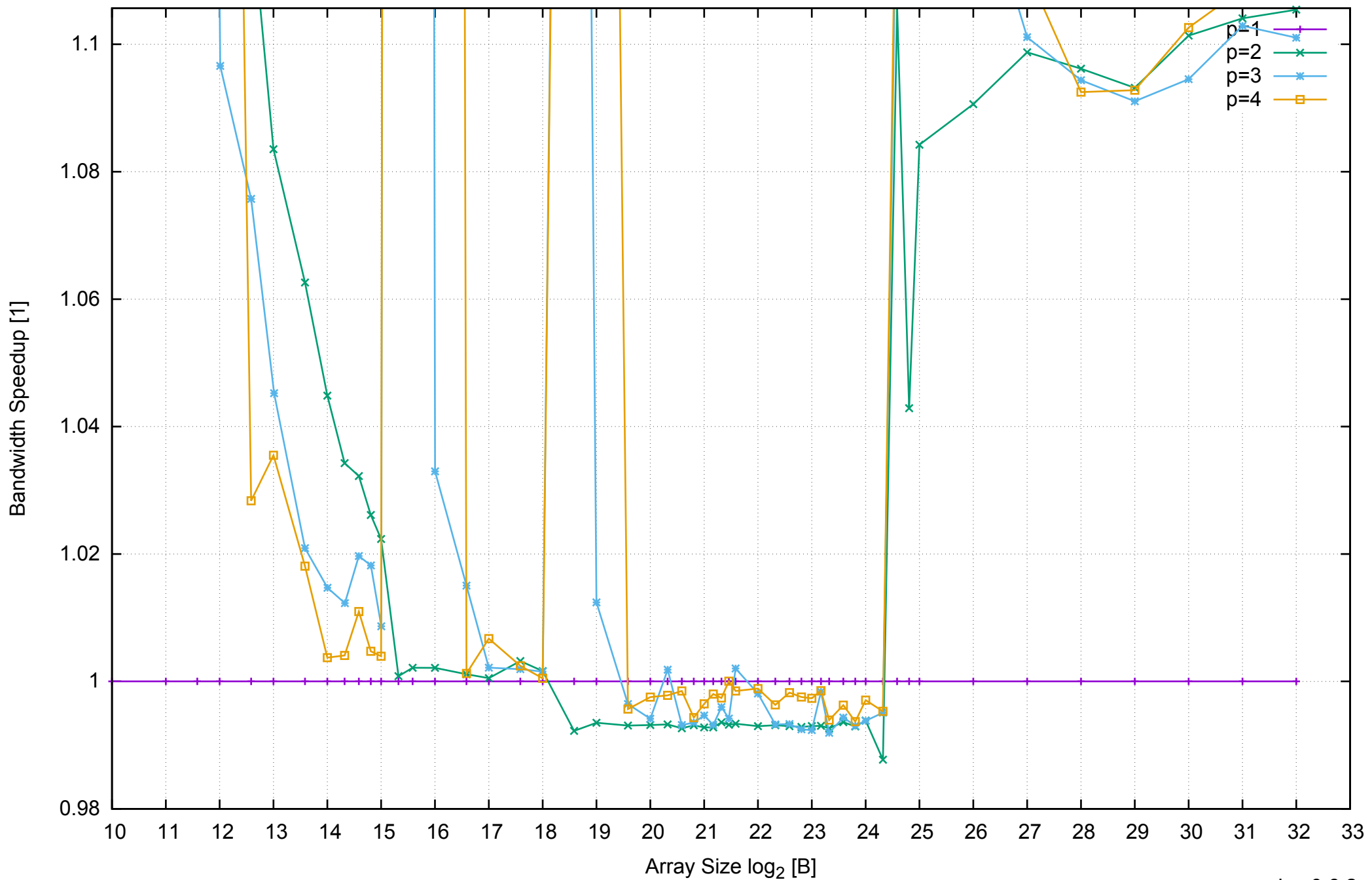
AWS m4.large - Intel Xeon E5-2676 v3, 2.40 GHz 8GB - Parallel Memory Access Time - ScanWrite256PtrSimpleLoop



AWS m4.large - Intel Xeon E5-2676 v3, 2.40 GHz 8GB - Speedup of Parallel Memory Bandwidth - ScanWrite256PtrSimpleLoop

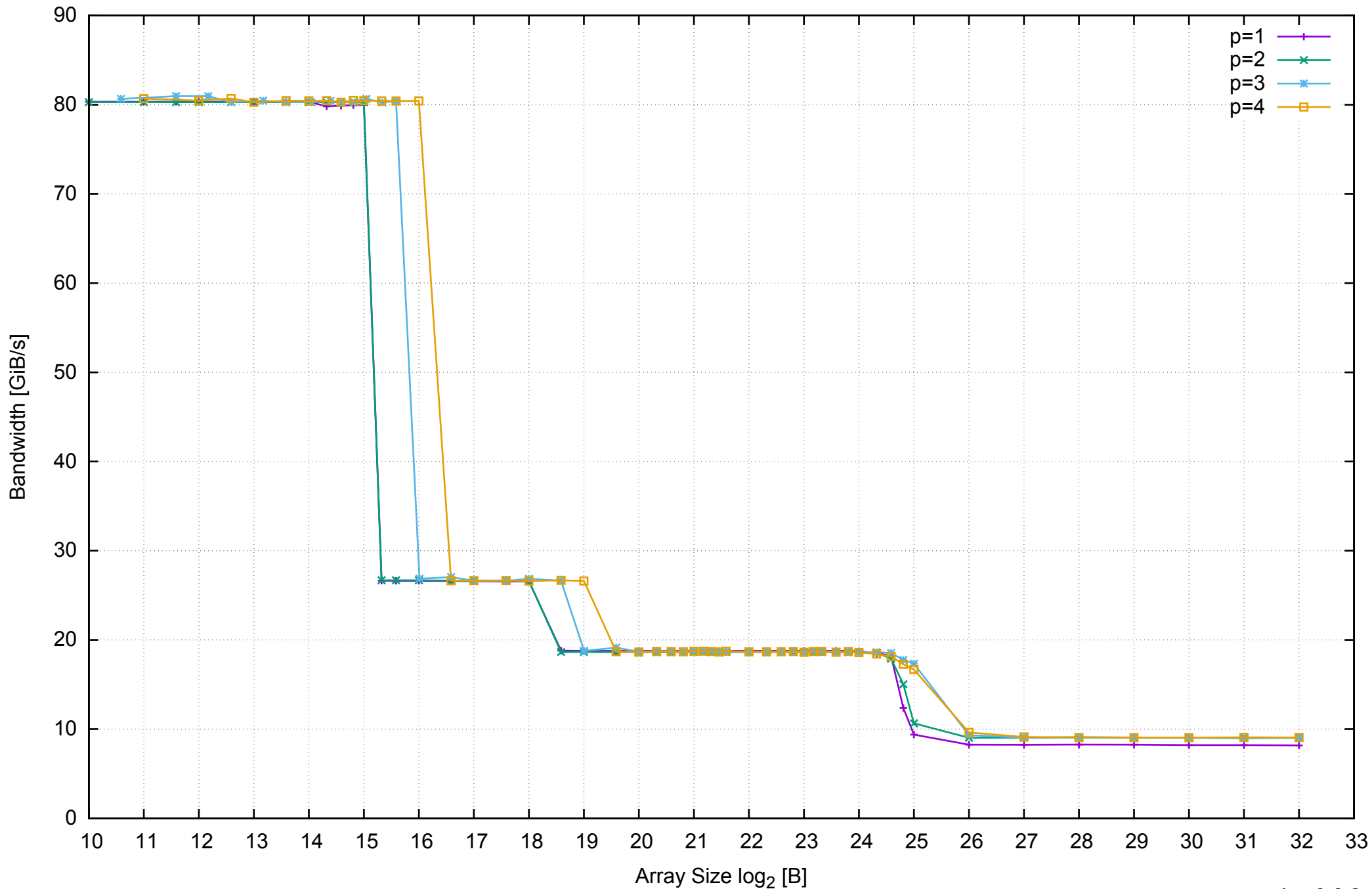


AWS m4.large - Intel Xeon E5-2676 v3, 2.40 GHz 8GB - Speedup of Parallel Memory Bandwidth (enlarged) - ScanWrite256PtrSimpleLoop

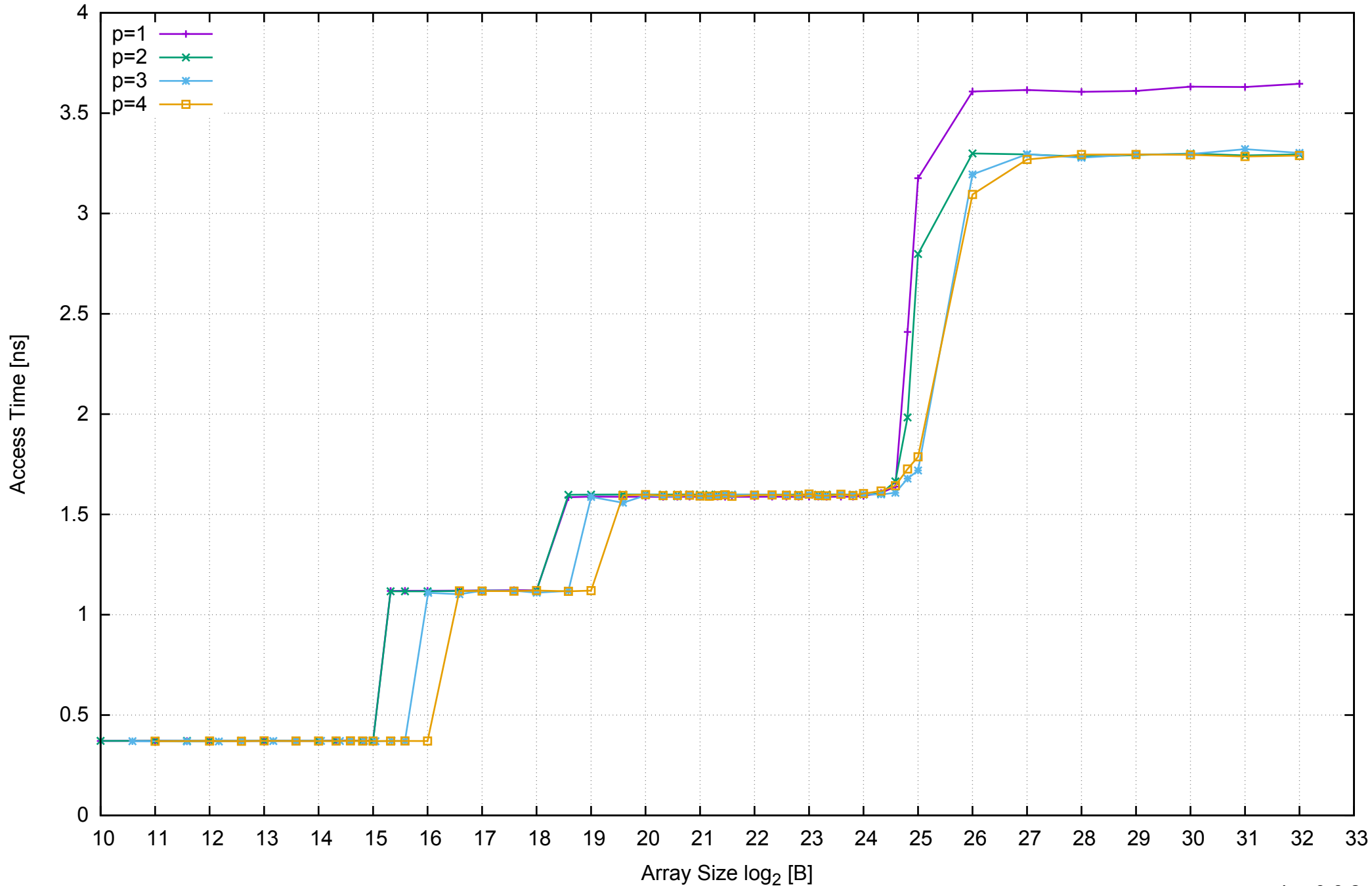




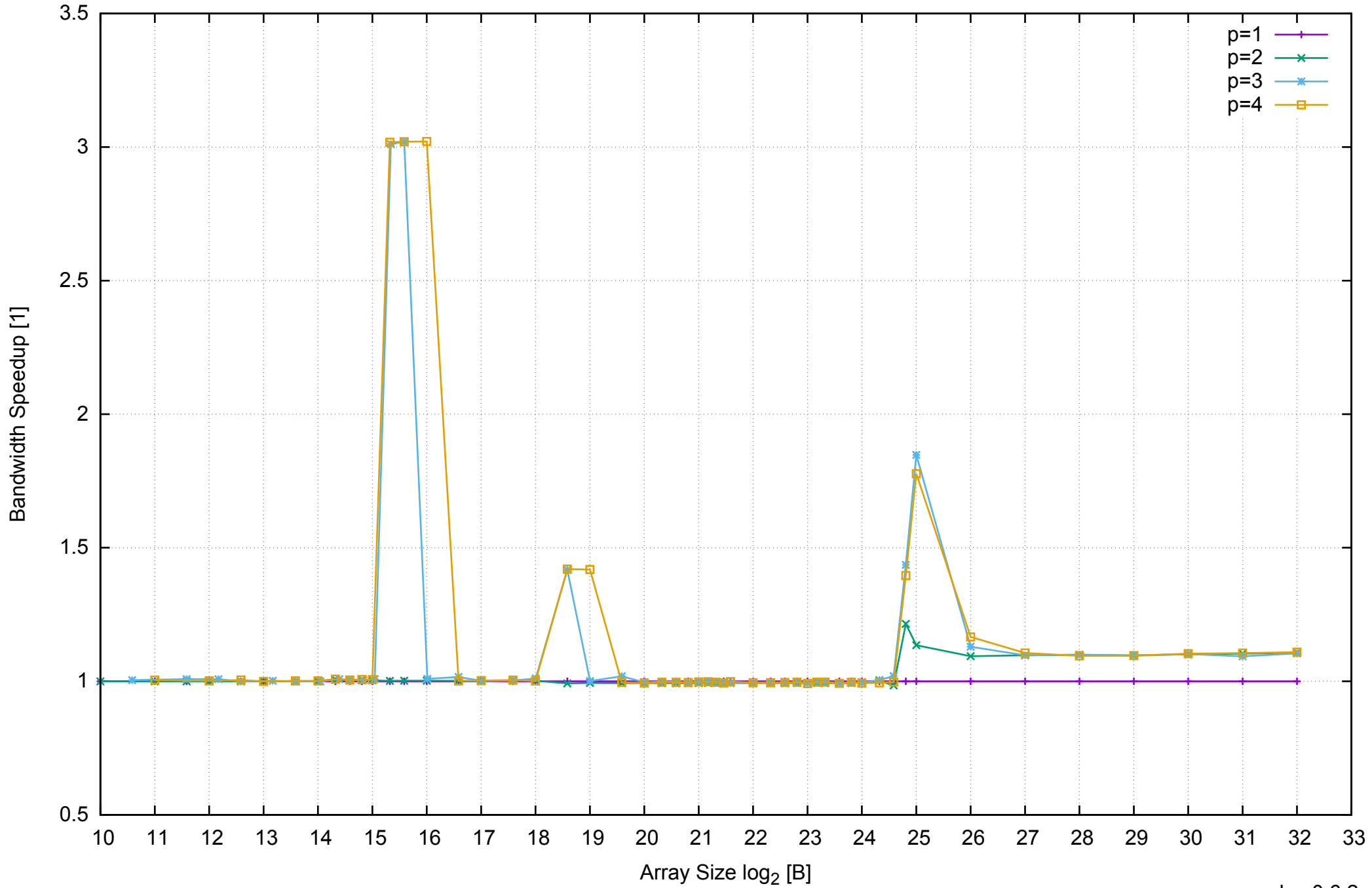
AWS m4.large - Intel Xeon E5-2676 v3, 2.40 GHz 8GB - Parallel Memory Bandwidth - ScanWrite256PtrUnrollLoop

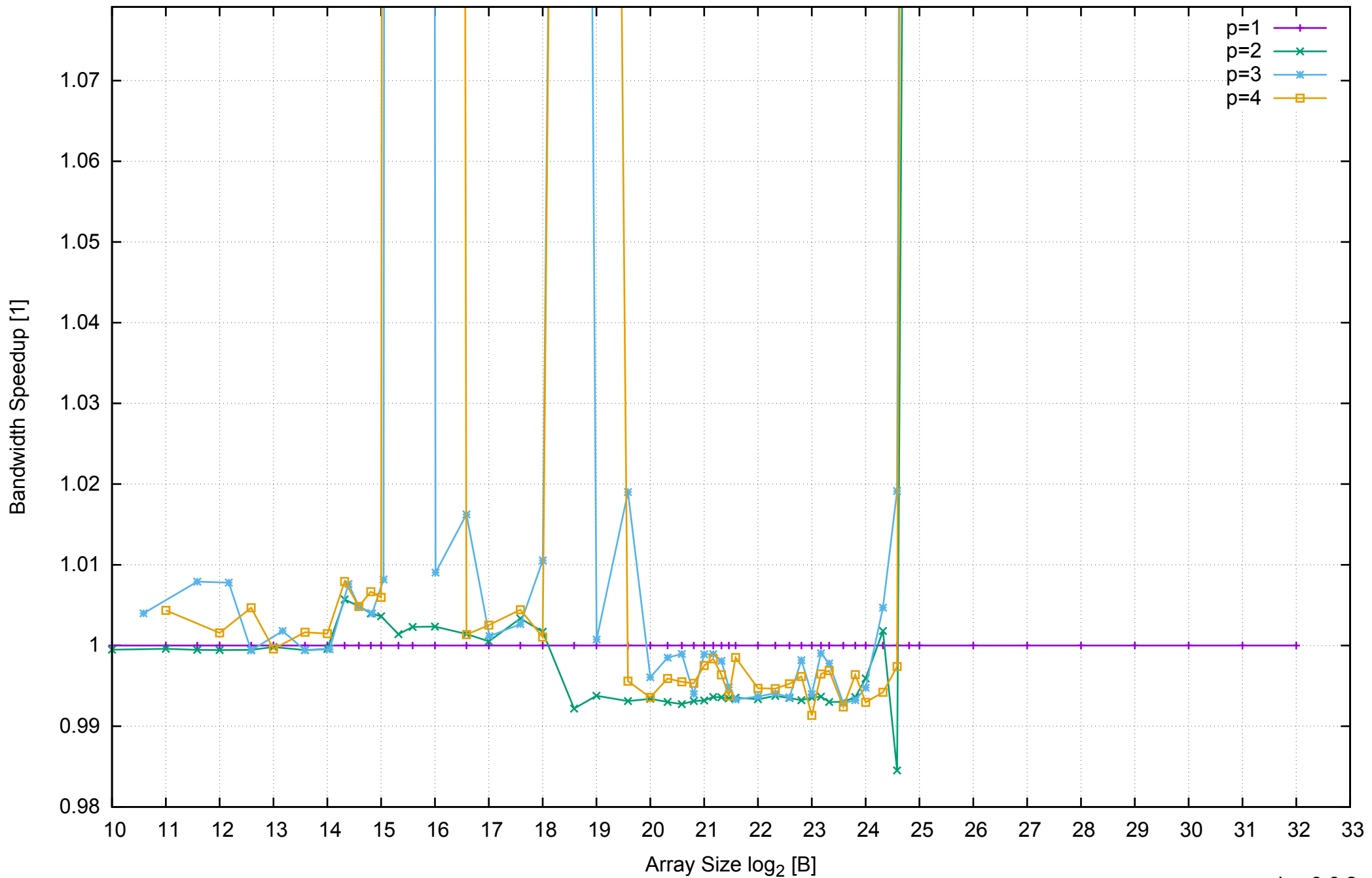


AWS m4.large - Intel Xeon E5-2676 v3, 2.40 GHz 8GB - Parallel Memory Access Time - ScanWrite256PtrUnrollLoop

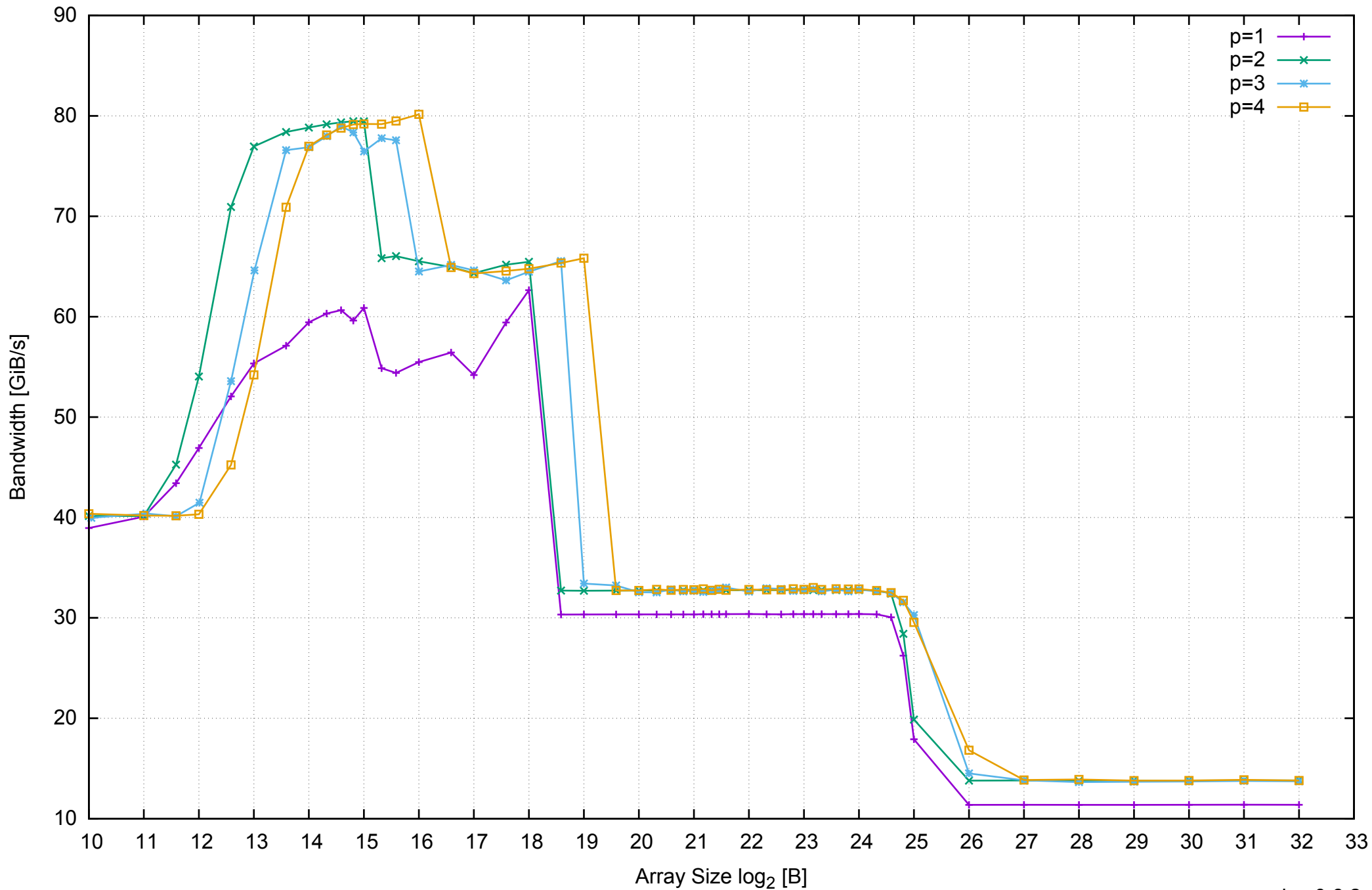


AWS m4.large - Intel Xeon E5-2676 v3, 2.40 GHz 8GB - Speedup of Parallel Memory Bandwidth - ScanWrite256PtrUnrollLoop

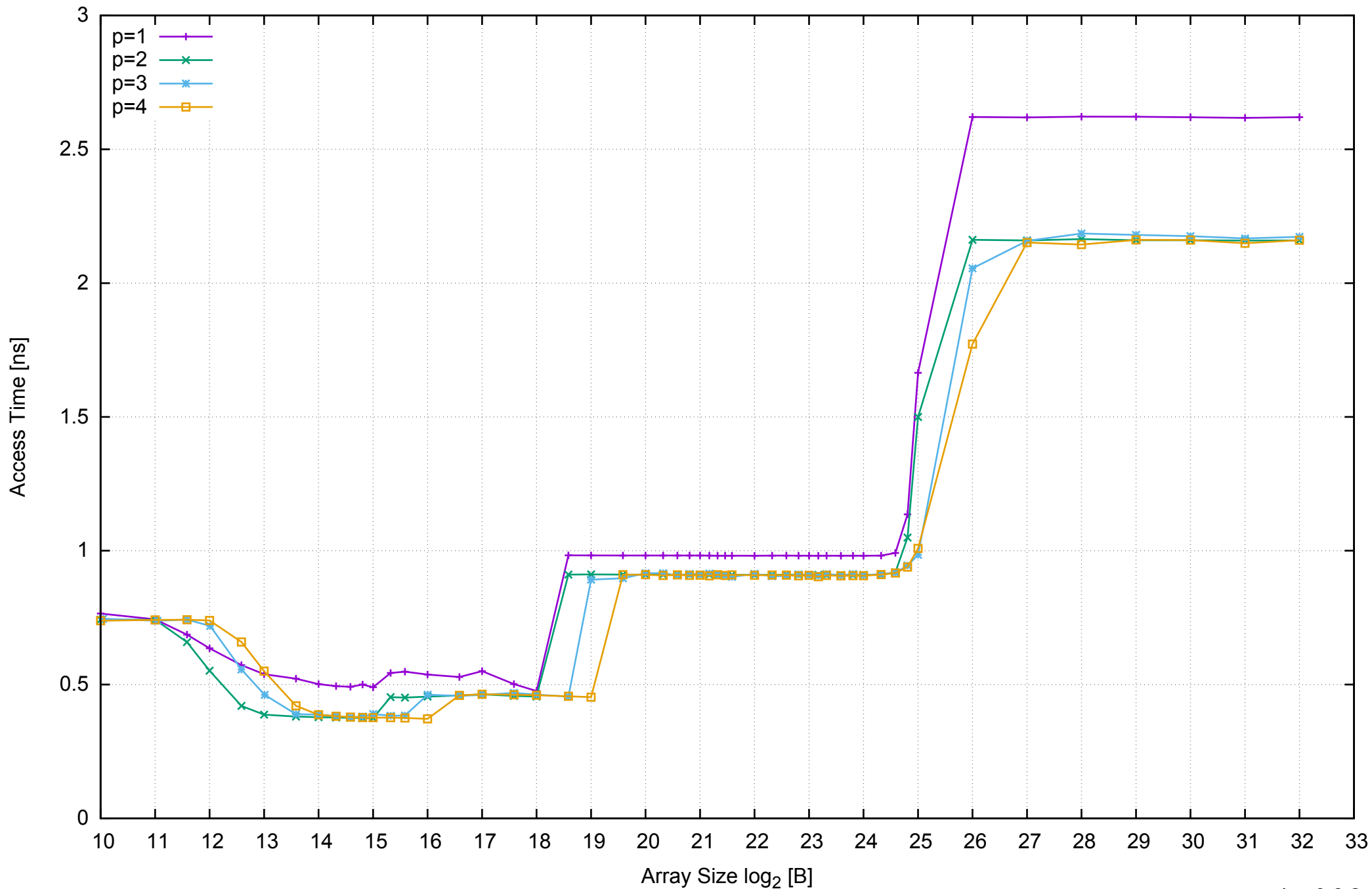




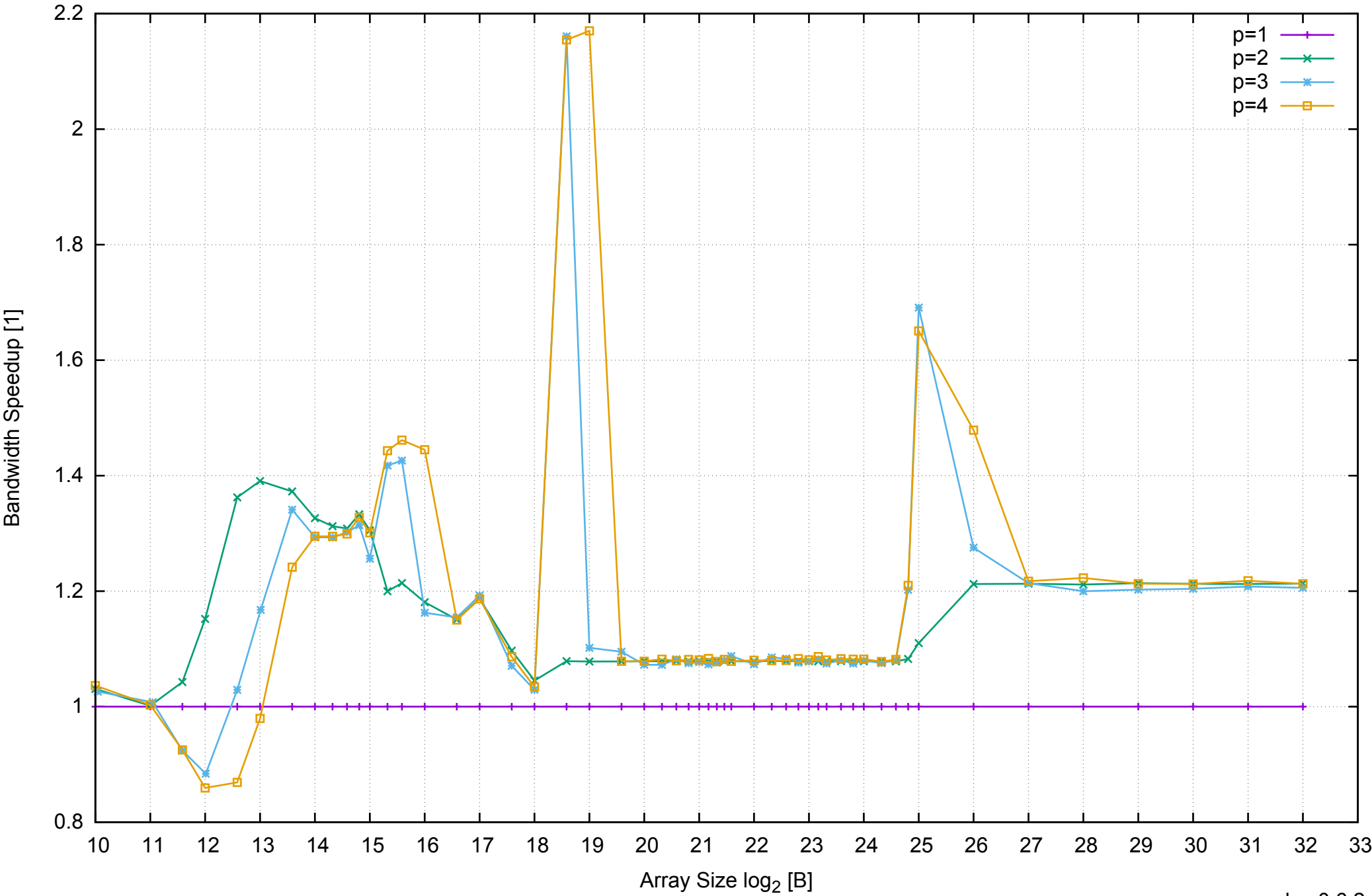
AWS m4.large - Intel Xeon E5-2676 v3, 2.40 GHz 8GB - Parallel Memory Bandwidth - ScanRead256PtrSimpleLoop

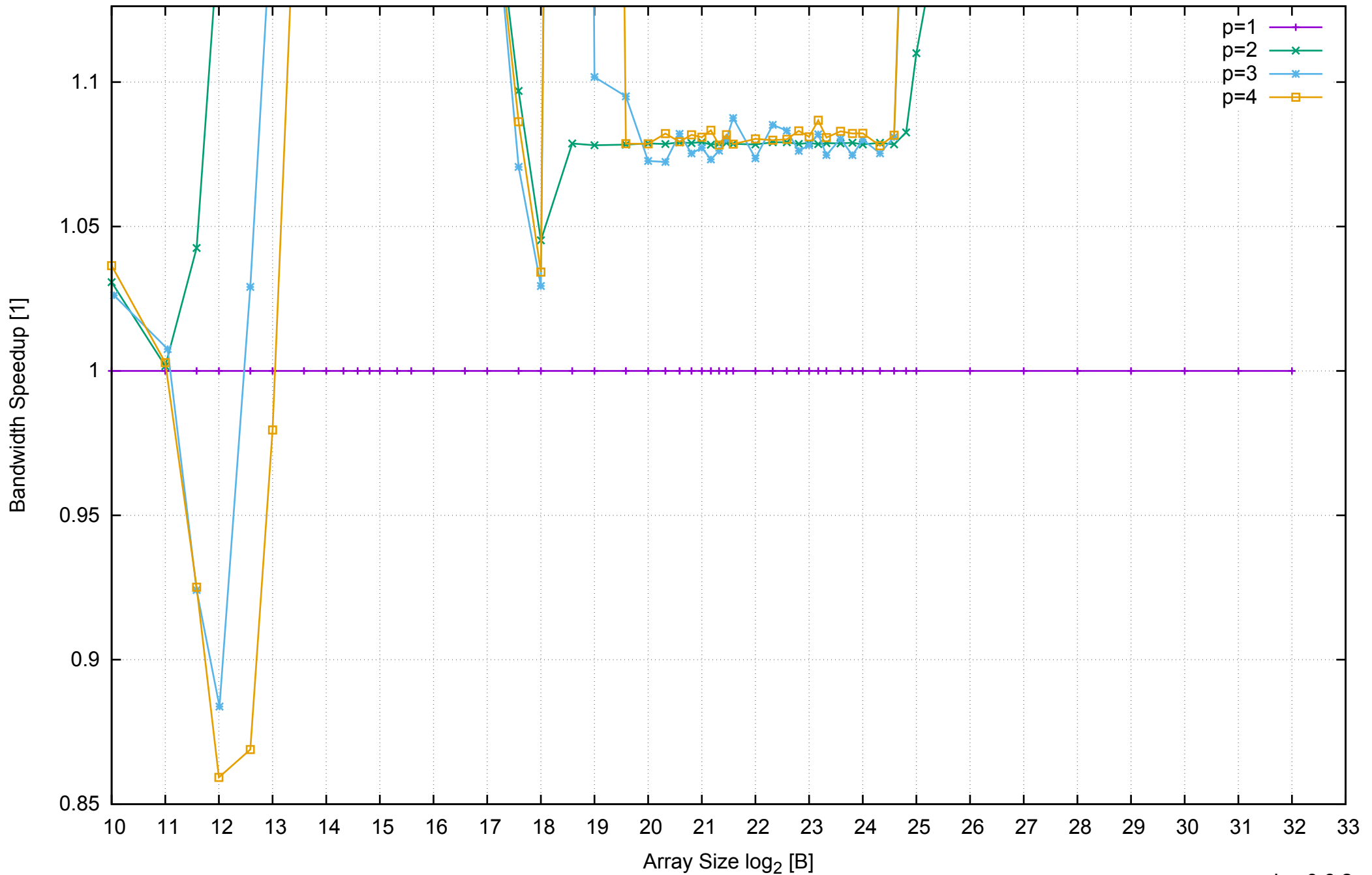


AWS m4.large - Intel Xeon E5-2676 v3, 2.40 GHz 8GB - Parallel Memory Access Time - ScanRead256PtrSimpleLoop



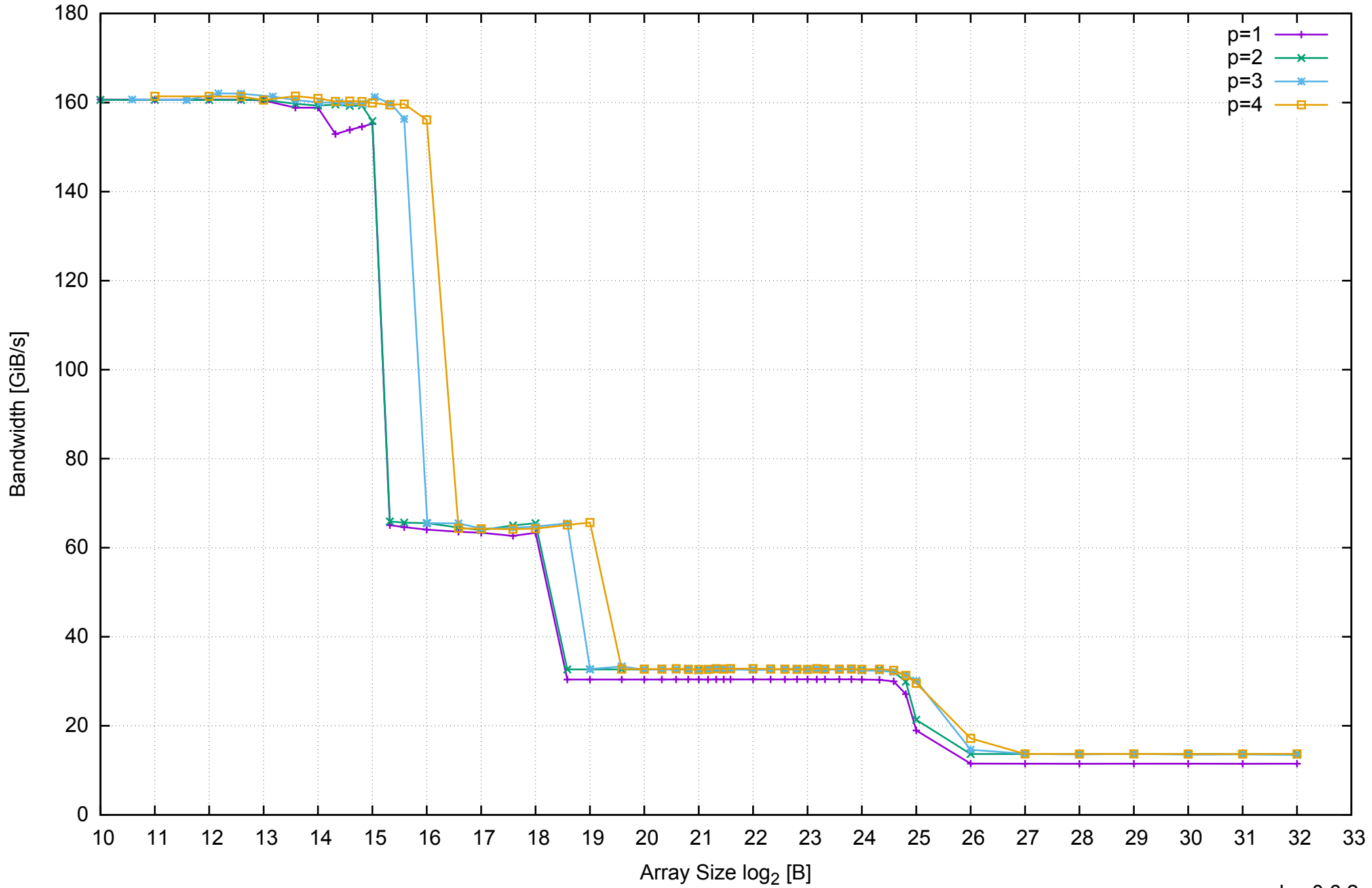
AWS m4.large - Intel Xeon E5-2676 v3, 2.40 GHz 8GB - Speedup of Parallel Memory Bandwidth - ScanRead256PtrSimpleLoop



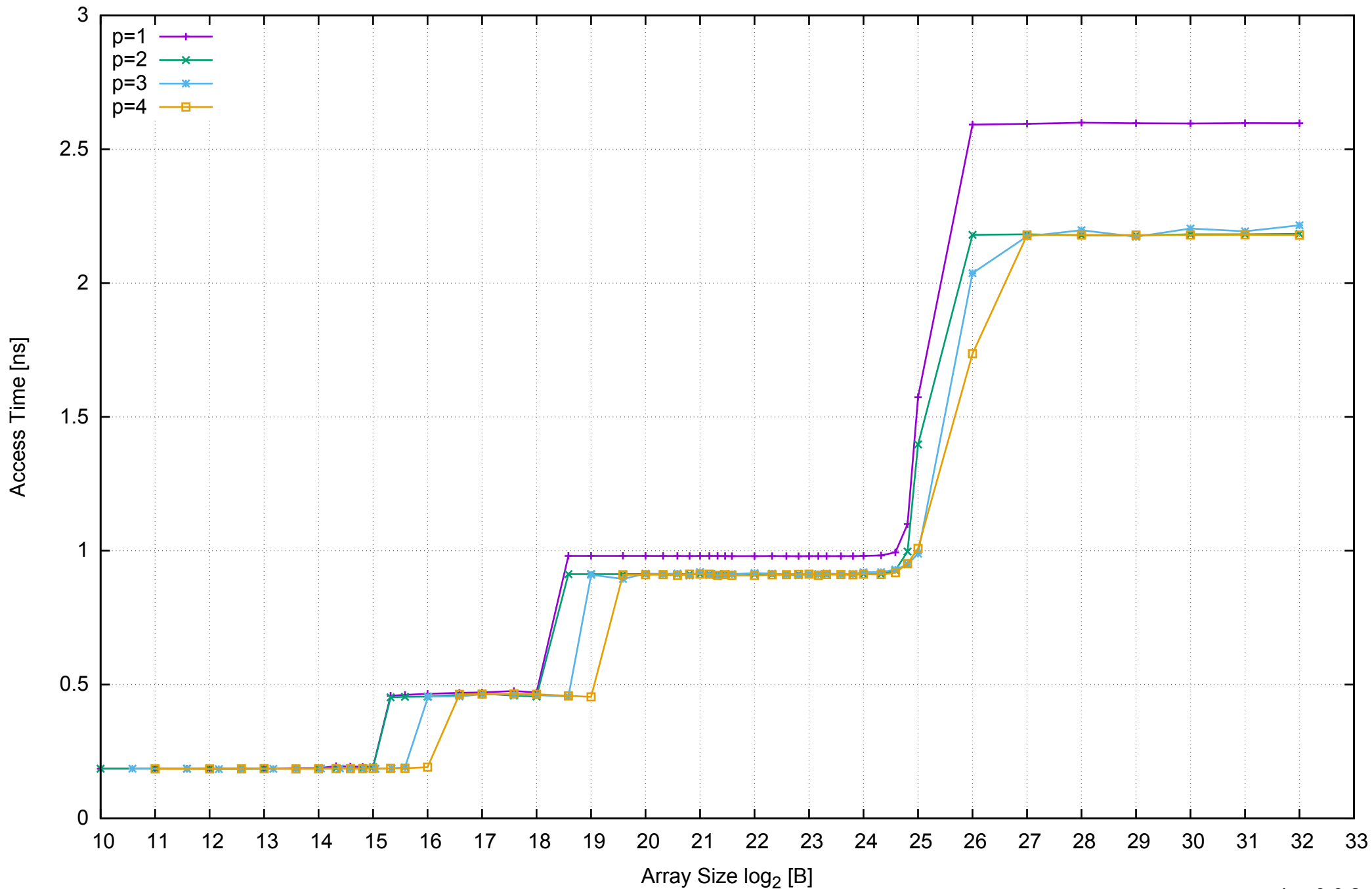




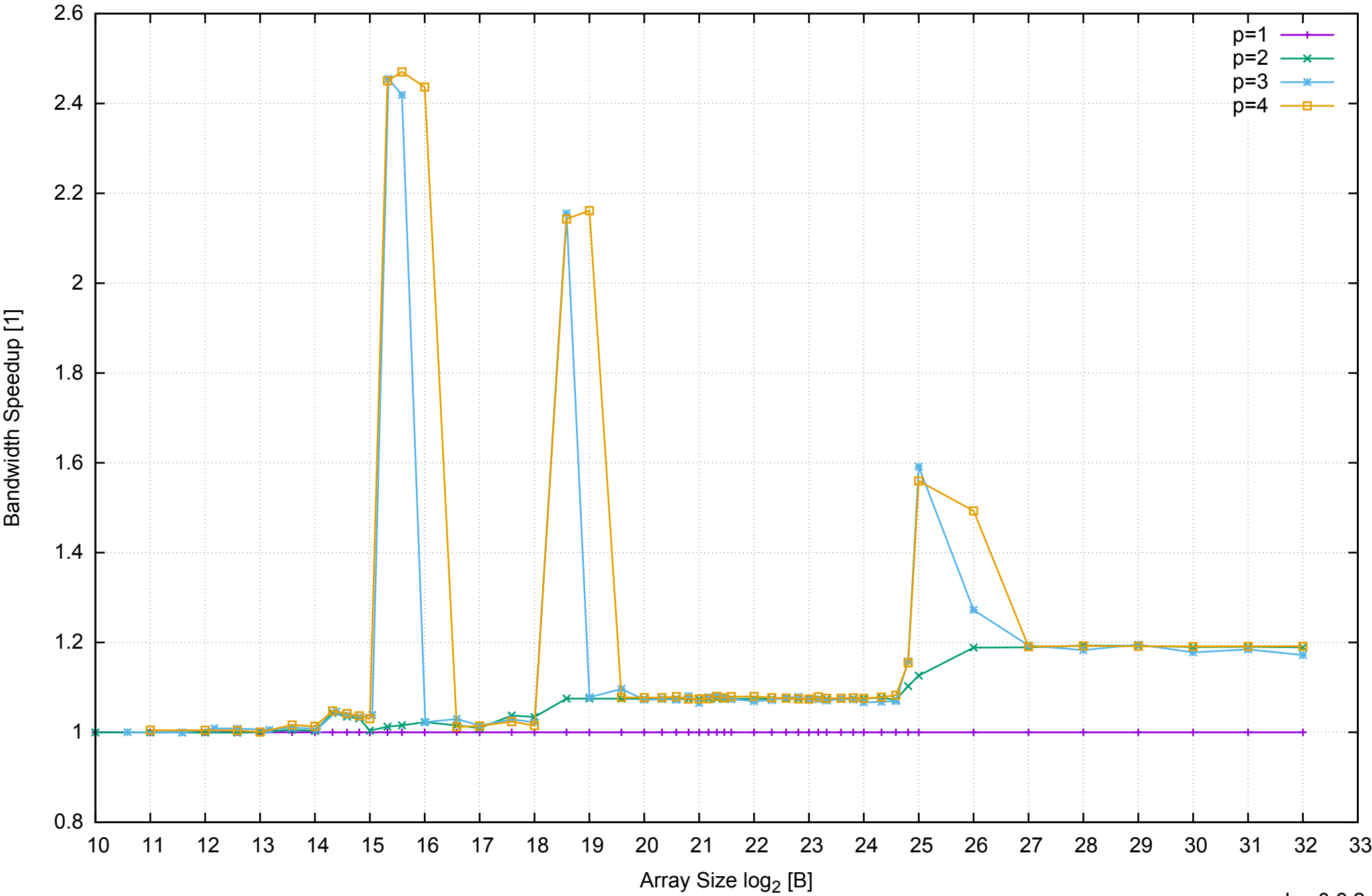
AWS m4.large - Intel Xeon E5-2676 v3, 2.40 GHz 8GB - Parallel Memory Bandwidth - ScanRead256PtrUnrollLoop

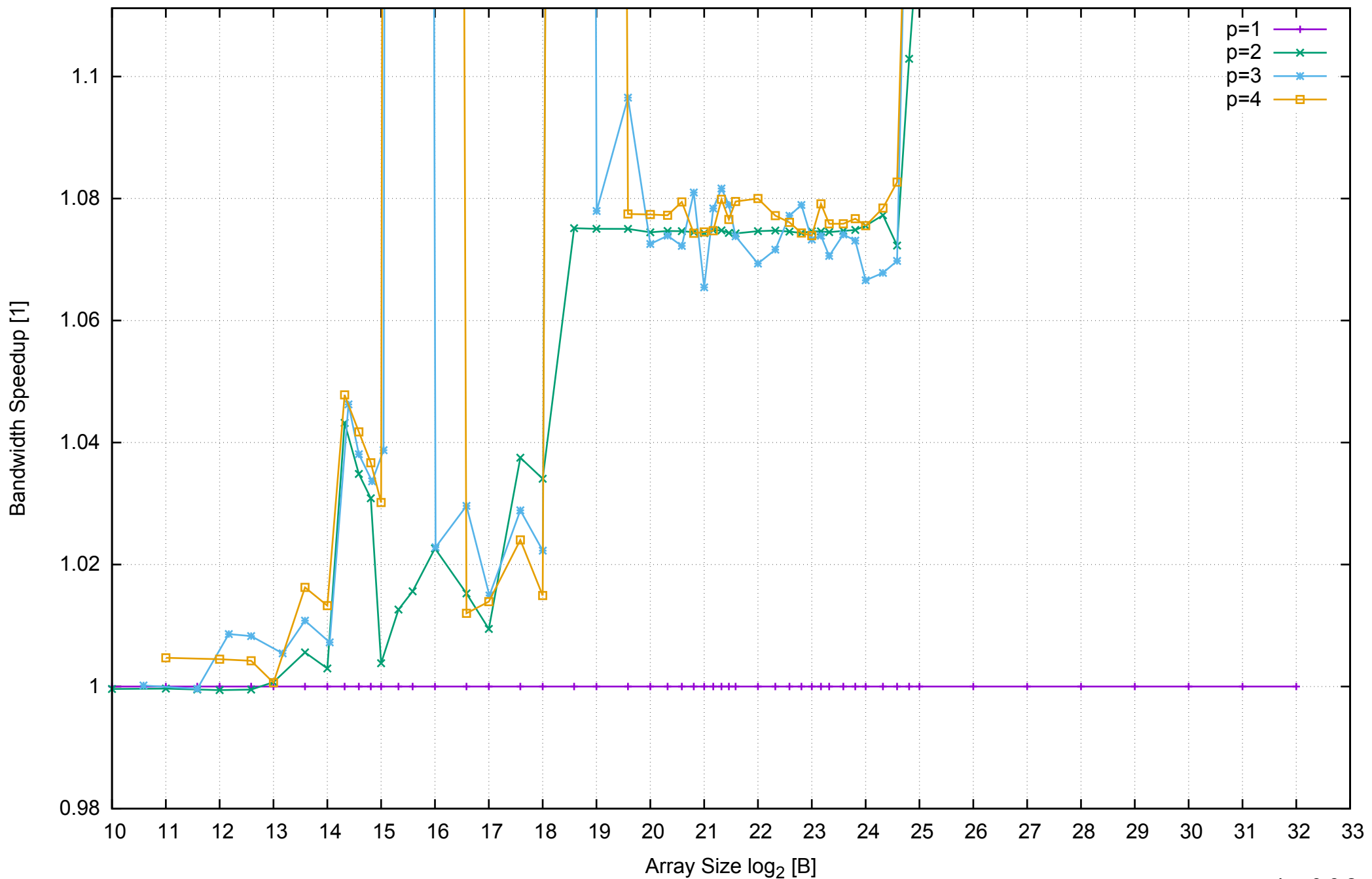


AWS m4.large - Intel Xeon E5-2676 v3, 2.40 GHz 8GB - Parallel Memory Access Time - ScanRead256PtrUnrollLoop

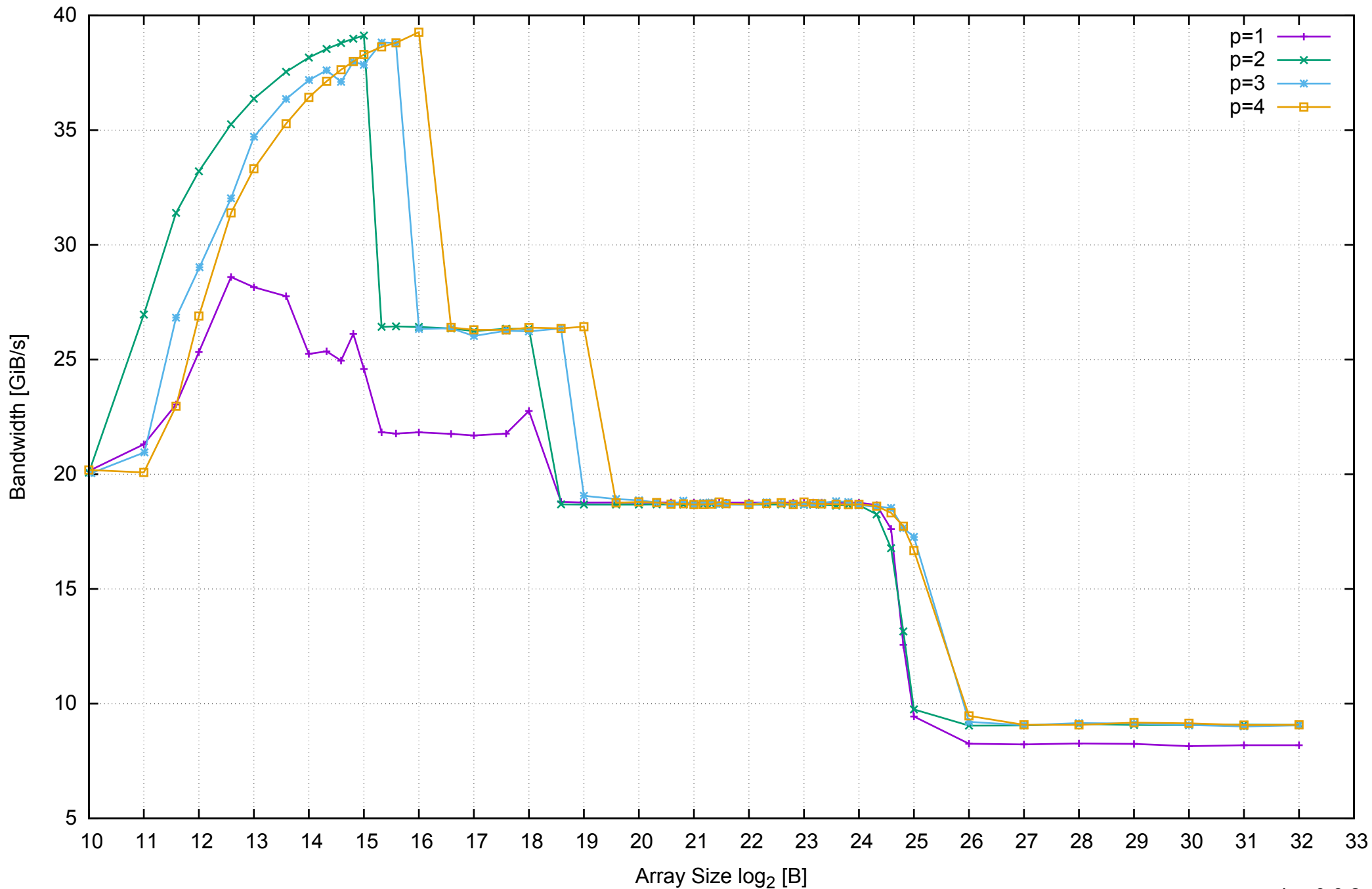


AWS m4.large - Intel Xeon E5-2676 v3, 2.40 GHz 8GB - Speedup of Parallel Memory Bandwidth - ScanRead256PtrUnrollLoop

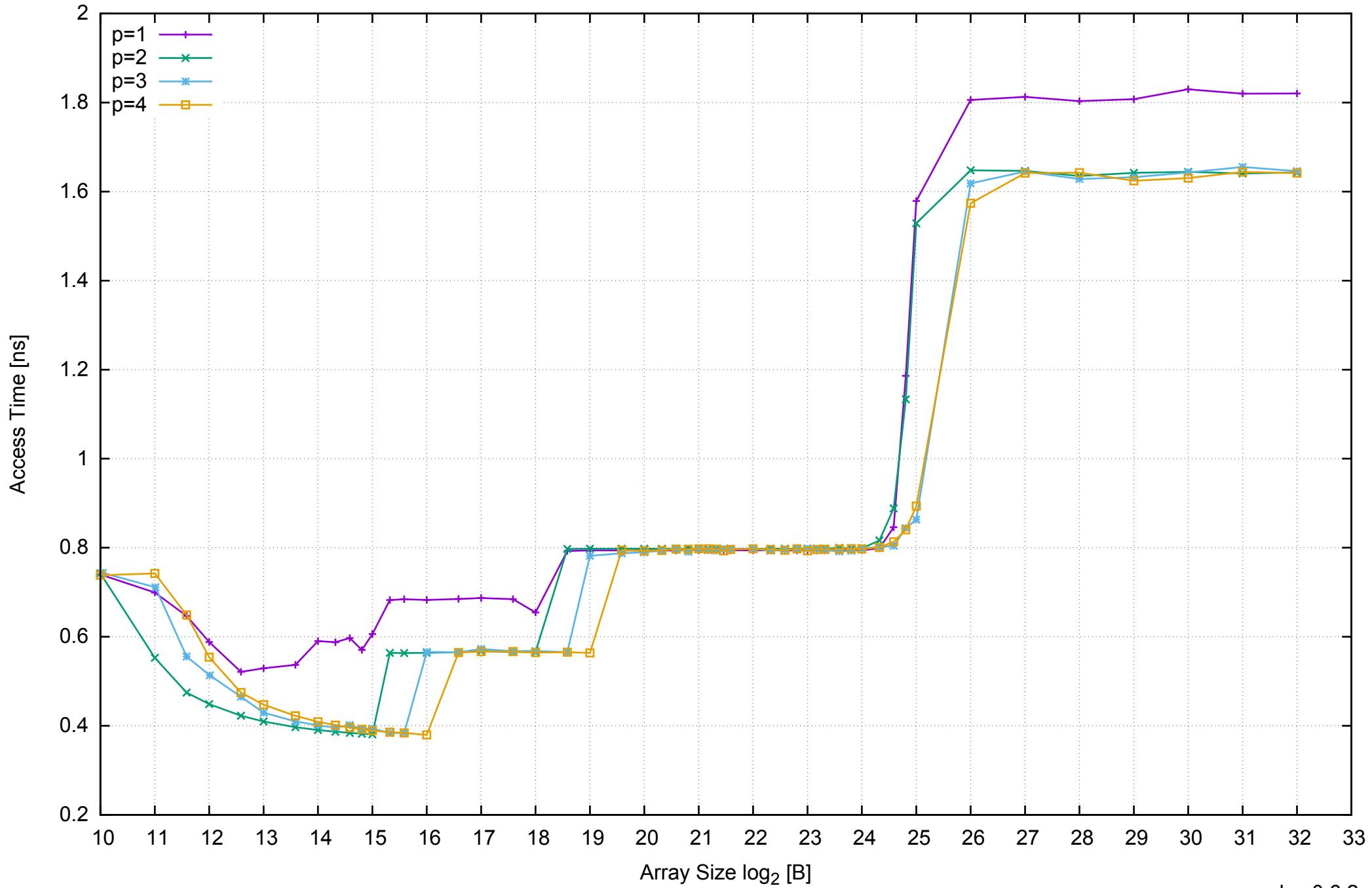




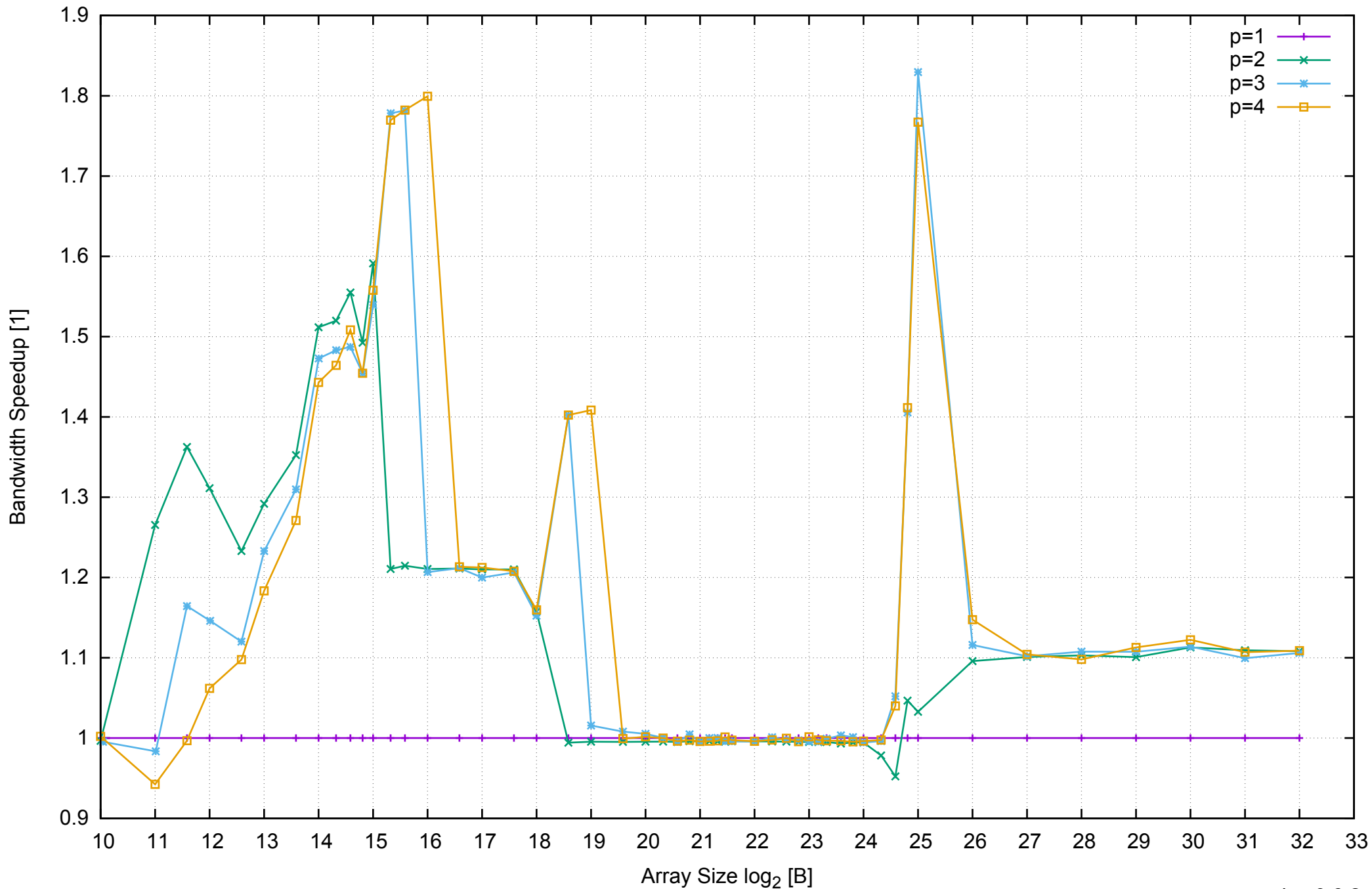
AWS m4.large - Intel Xeon E5-2676 v3, 2.40 GHz 8GB - Parallel Memory Bandwidth - ScanWrite128PtrSimpleLoop



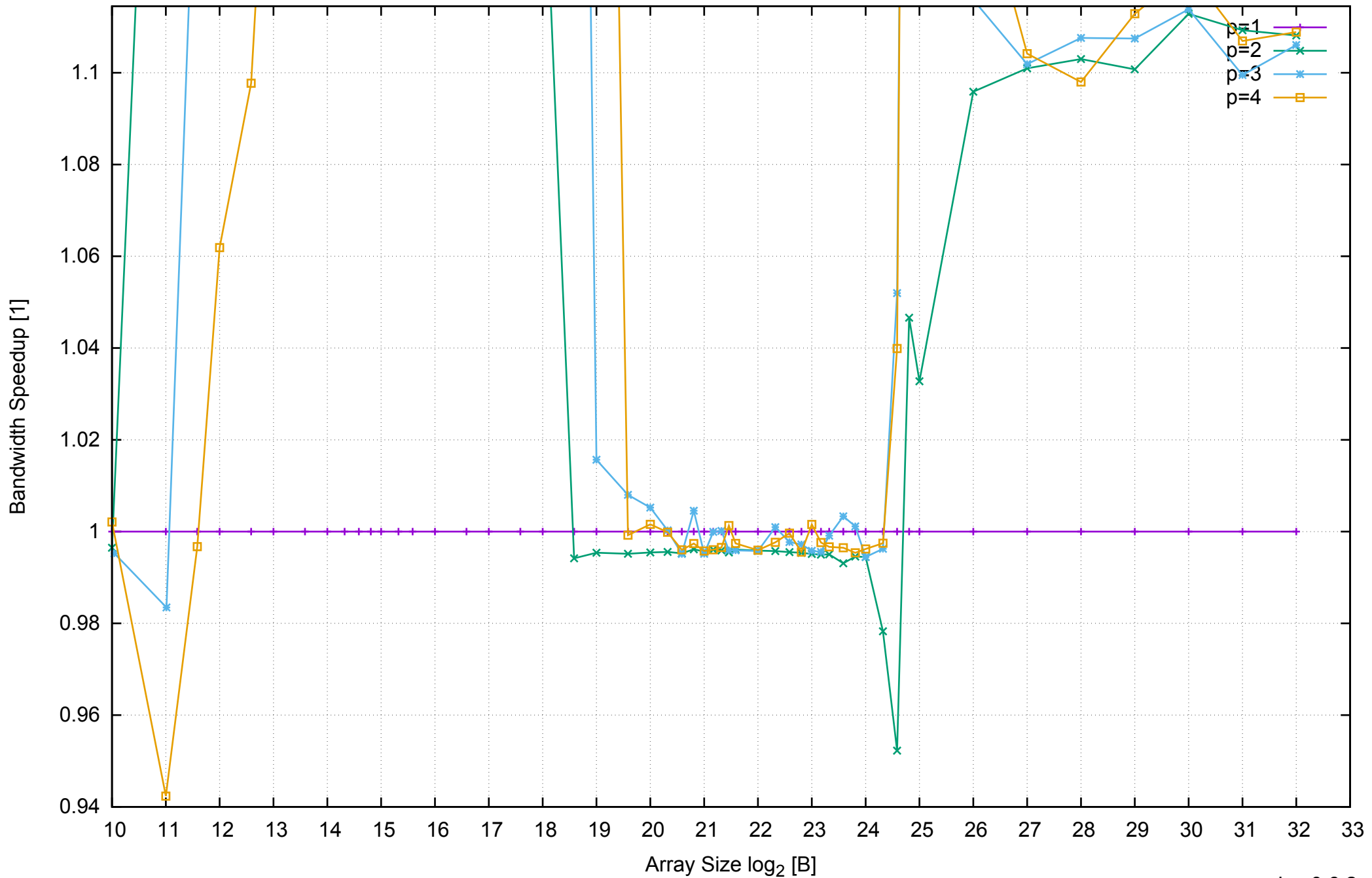
AWS m4.large - Intel Xeon E5-2676 v3, 2.40 GHz 8GB - Parallel Memory Access Time - ScanWrite128PtrSimpleLoop



AWS m4.large - Intel Xeon E5-2676 v3, 2.40 GHz 8GB - Speedup of Parallel Memory Bandwidth - ScanWrite128PtrSimpleLoop

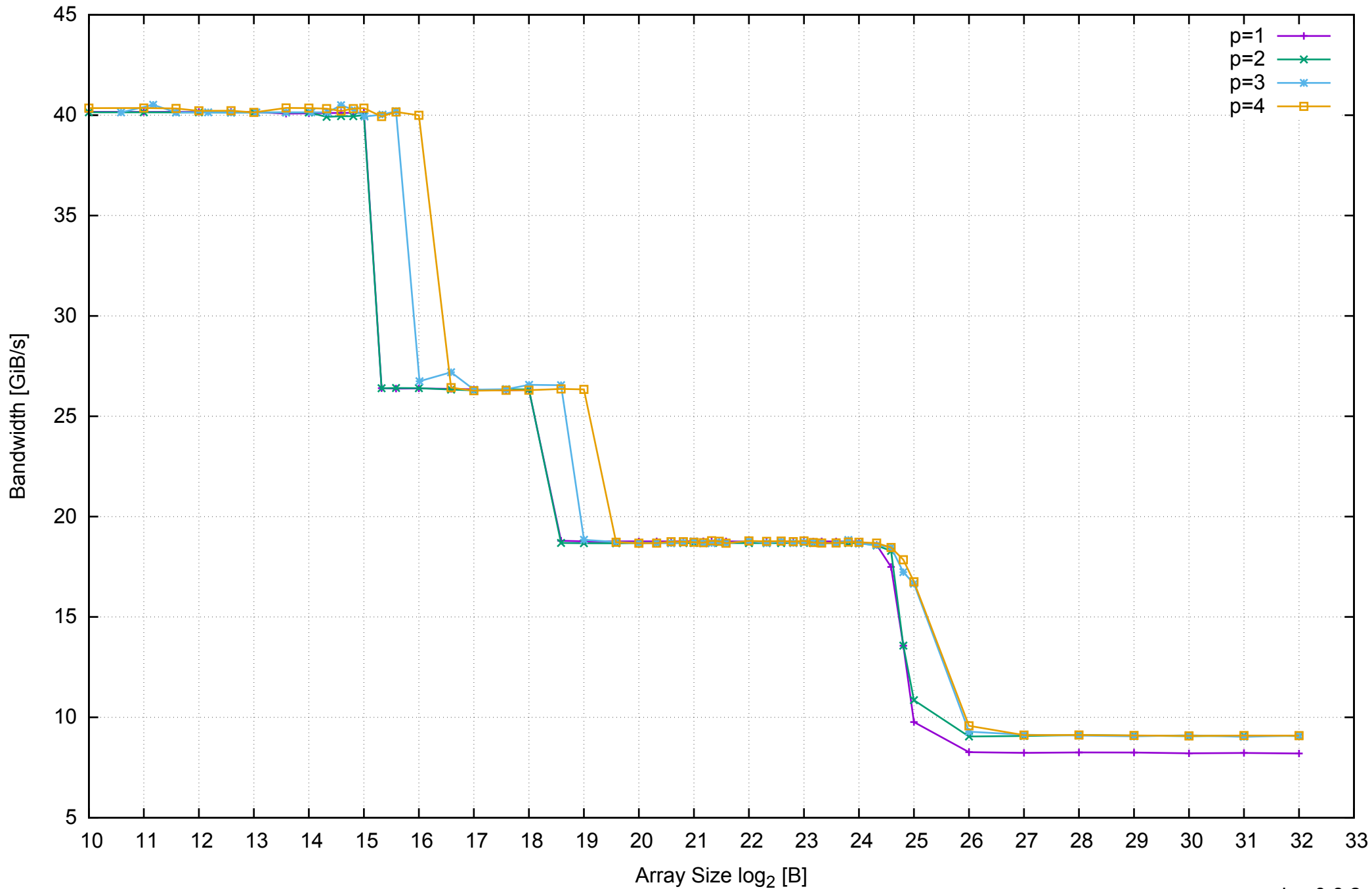


AWS m4.large - Intel Xeon E5-2676 v3, 2.40 GHz 8GB - Speedup of Parallel Memory Bandwidth (enlarged) - ScanWrite128PtrSimpleLoop

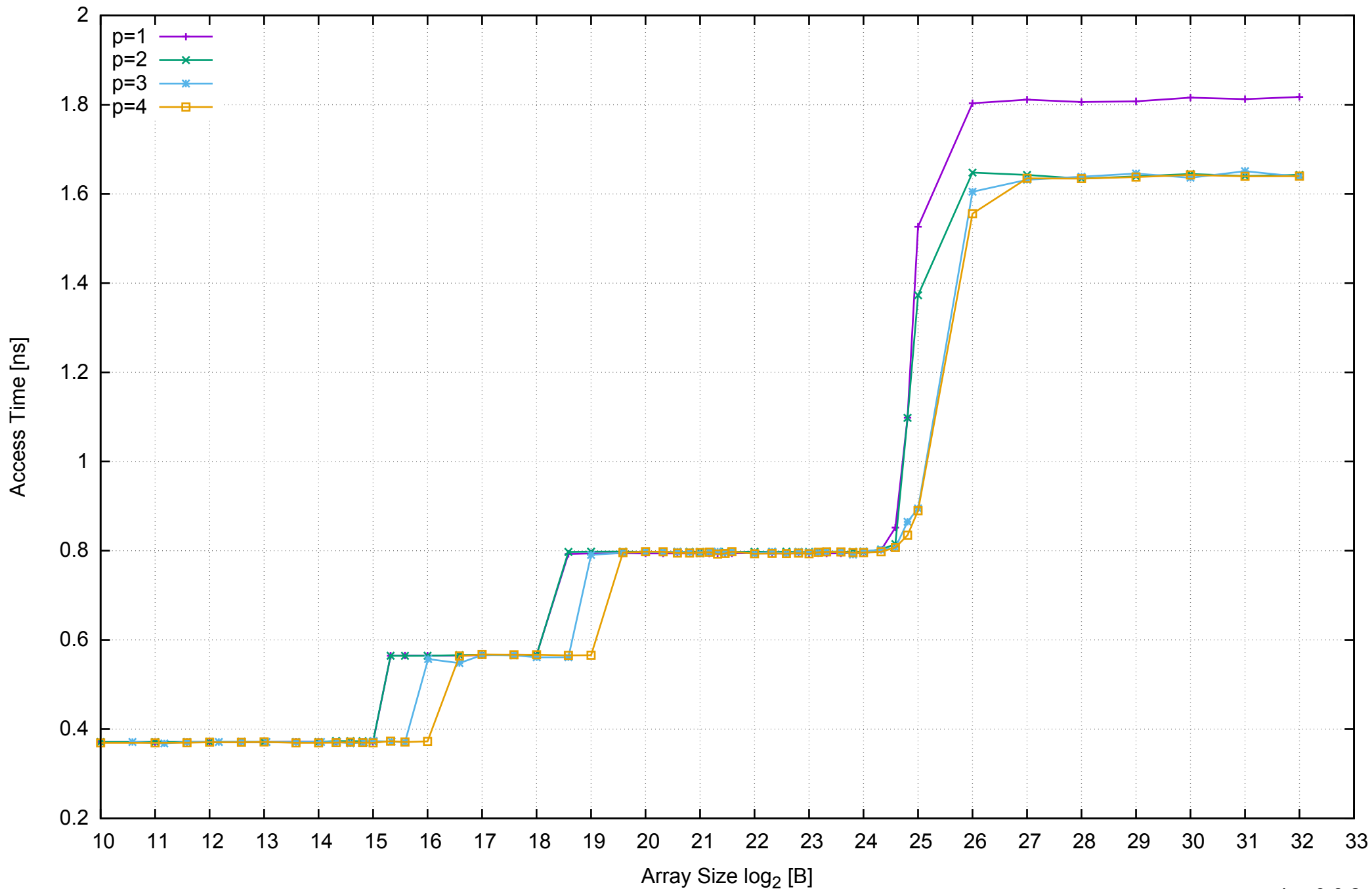




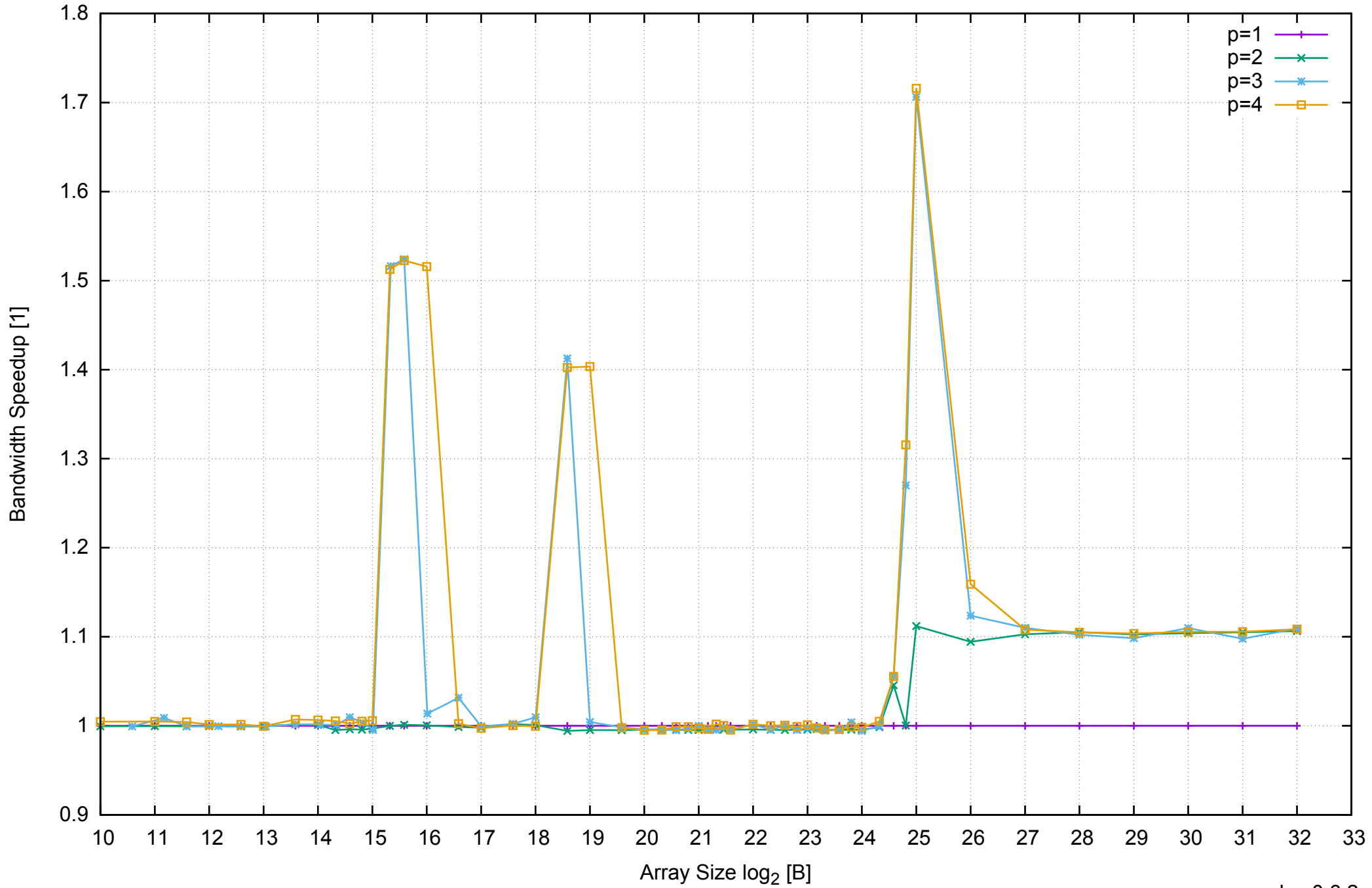
AWS m4.large - Intel Xeon E5-2676 v3, 2.40 GHz 8GB - Parallel Memory Bandwidth - ScanWrite128PtrUnrollLoop



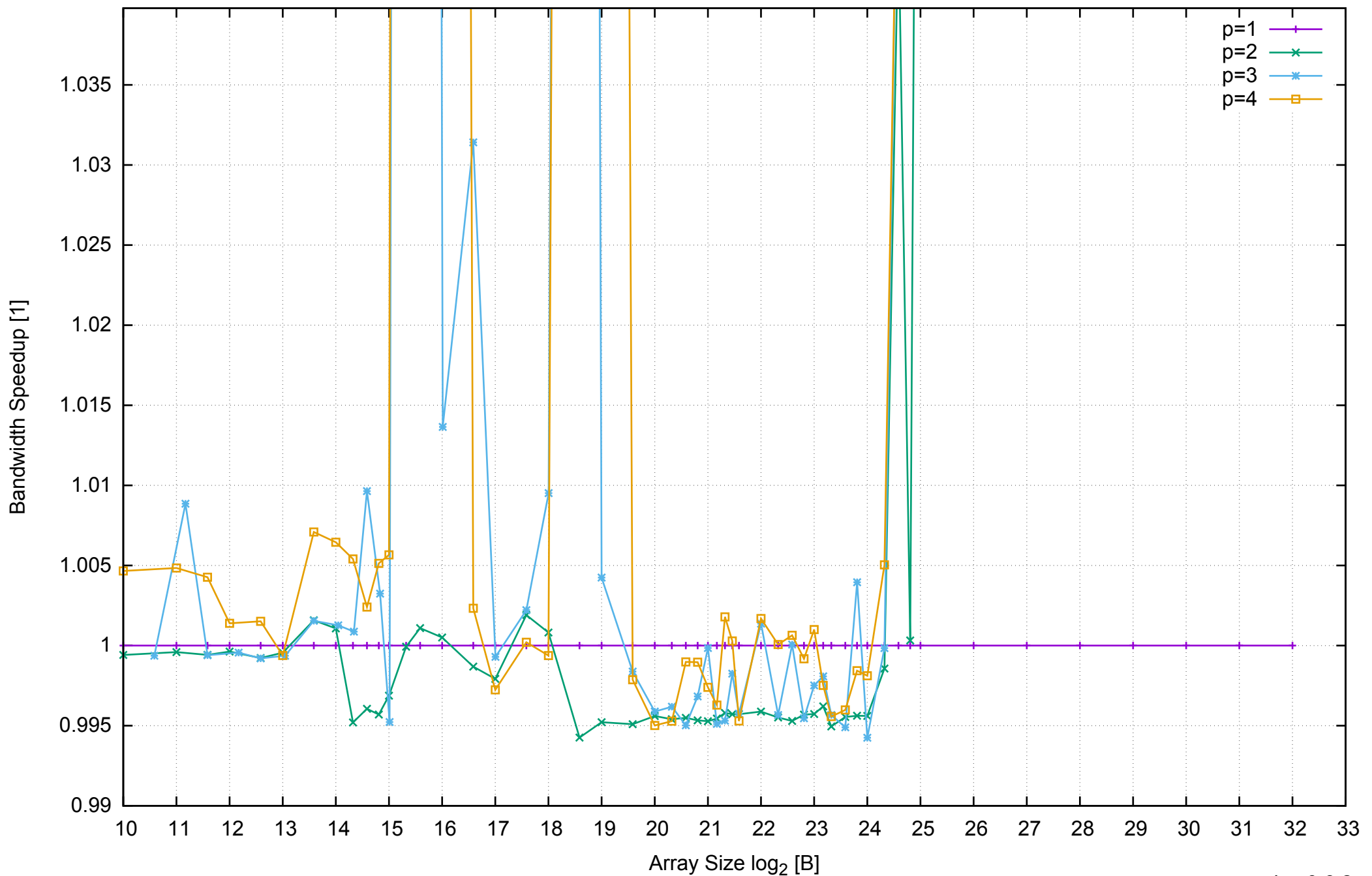
AWS m4.large - Intel Xeon E5-2676 v3, 2.40 GHz 8GB - Parallel Memory Access Time - ScanWrite128PtrUnrollLoop



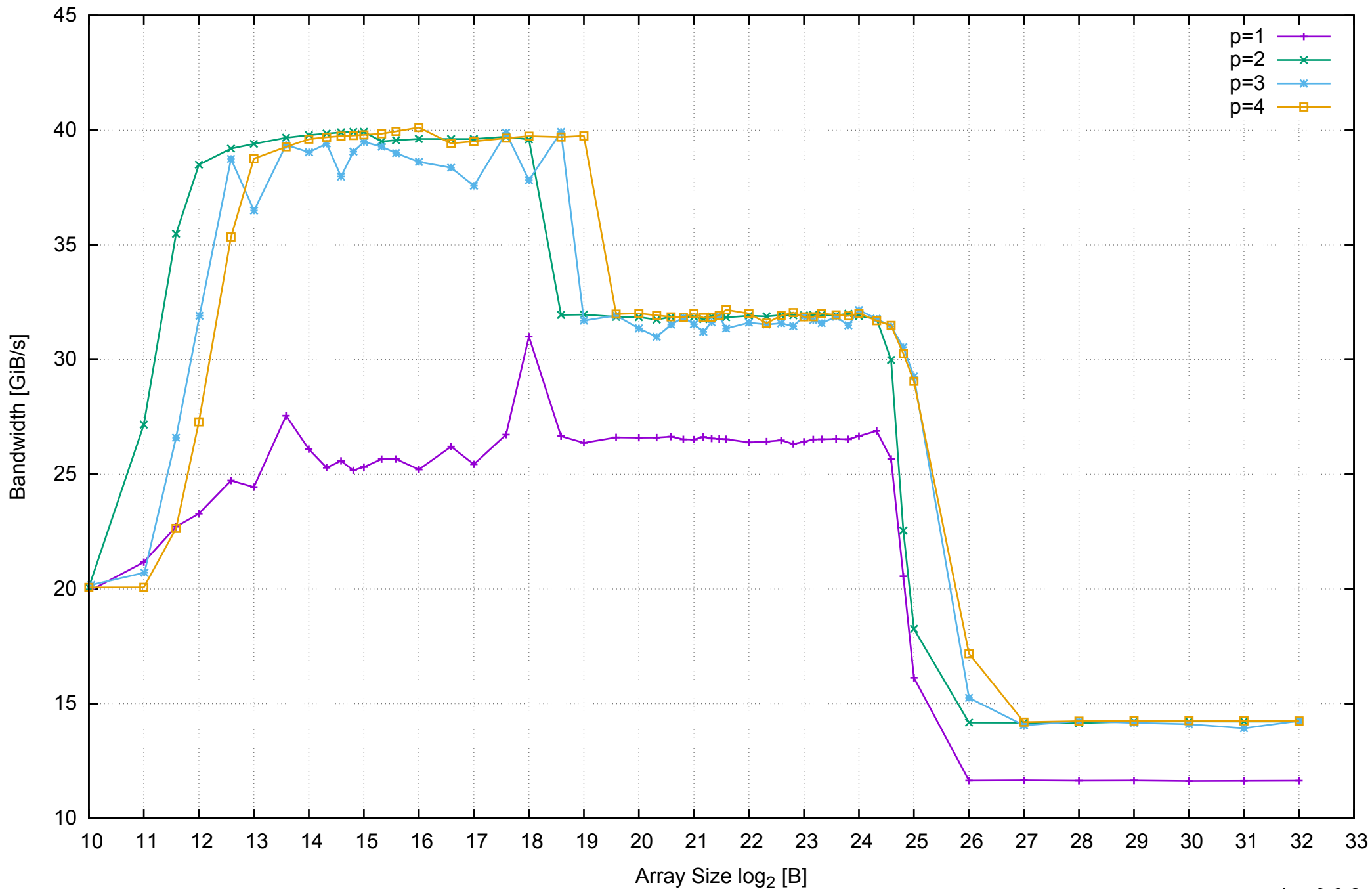
AWS m4.large - Intel Xeon E5-2676 v3, 2.40 GHz 8GB - Speedup of Parallel Memory Bandwidth - ScanWrite128PtrUnrollLoop



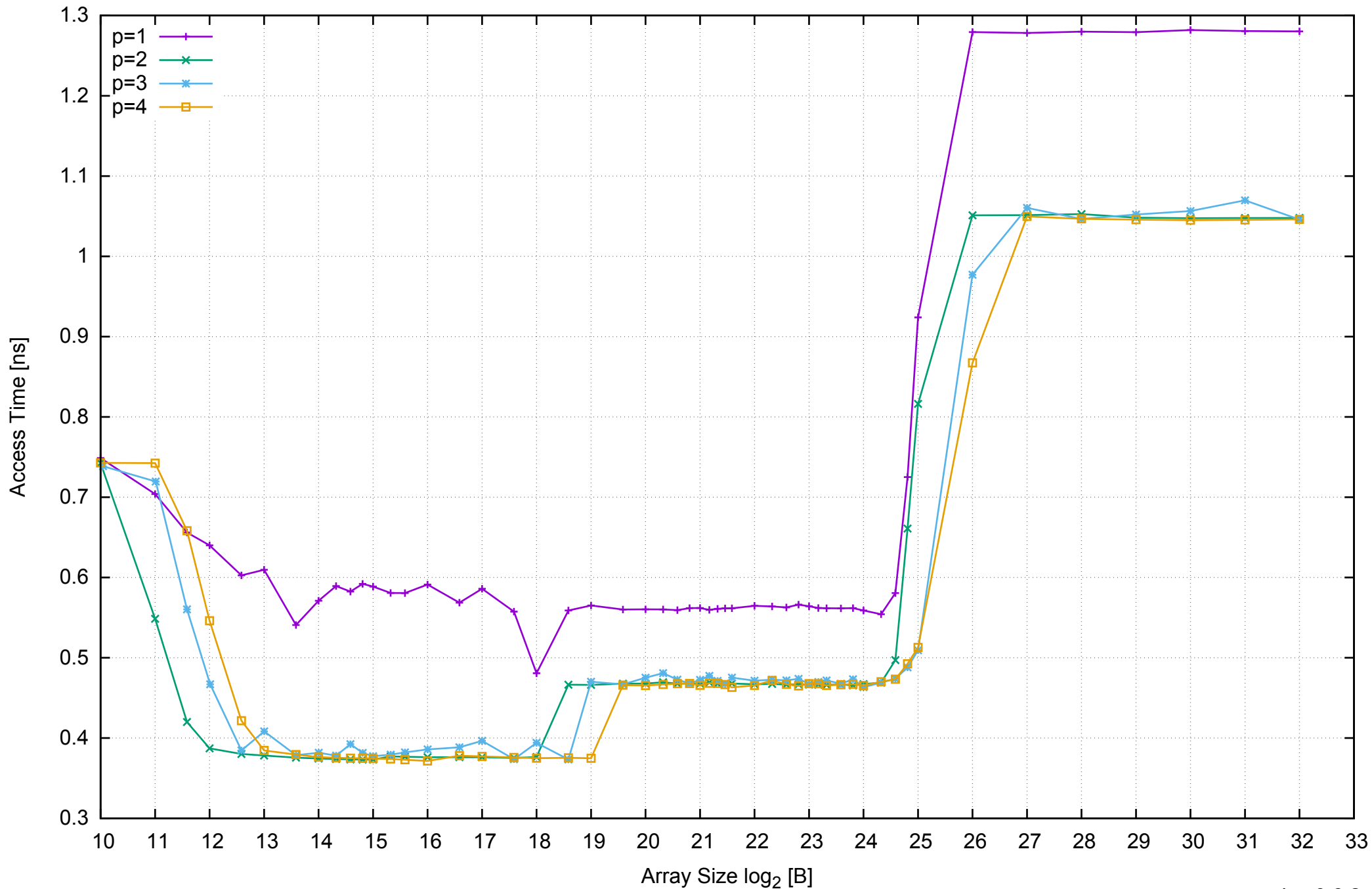
AWS m4.large - Intel Xeon E5-2676 v3, 2.40 GHz 8GB - Speedup of Parallel Memory Bandwidth (enlarged) - ScanWrite128PtrUnrollLoop



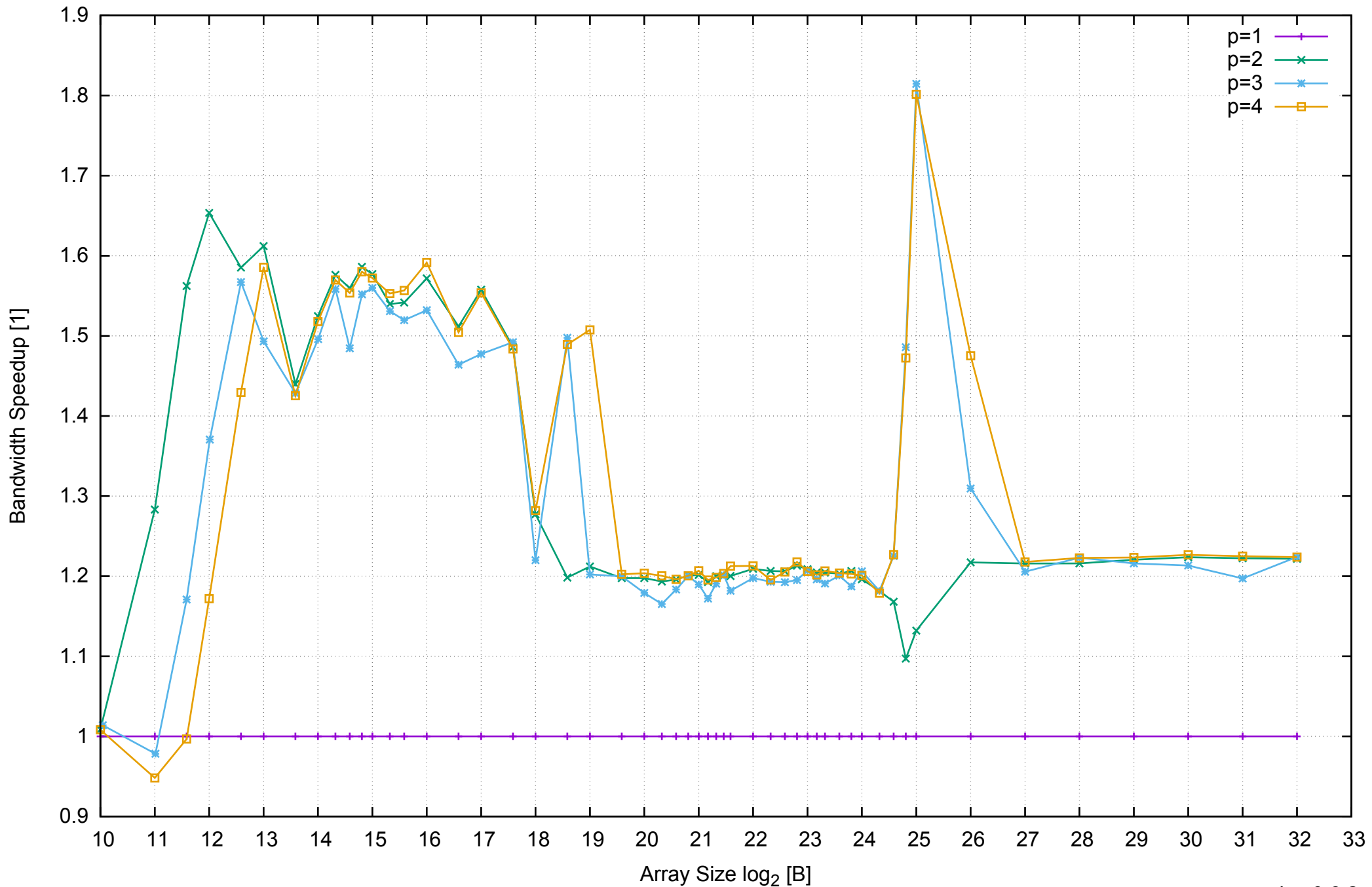
AWS m4.large - Intel Xeon E5-2676 v3, 2.40 GHz 8GB - Parallel Memory Bandwidth - ScanRead128PtrSimpleLoop



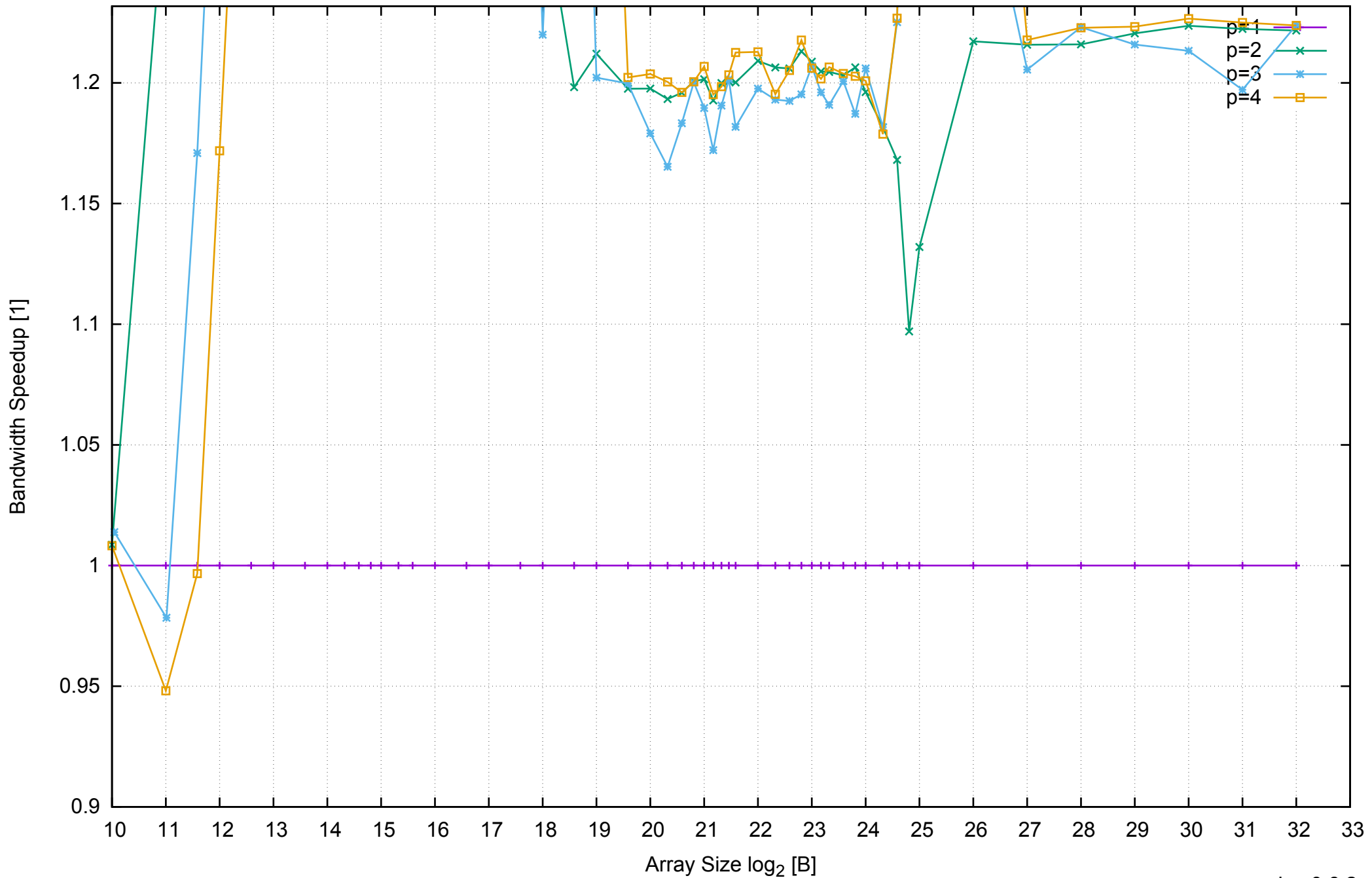
AWS m4.large - Intel Xeon E5-2676 v3, 2.40 GHz 8GB - Parallel Memory Access Time - ScanRead128PtrSimpleLoop



AWS m4.large - Intel Xeon E5-2676 v3, 2.40 GHz 8GB - Speedup of Parallel Memory Bandwidth - ScanRead128PtrSimpleLoop

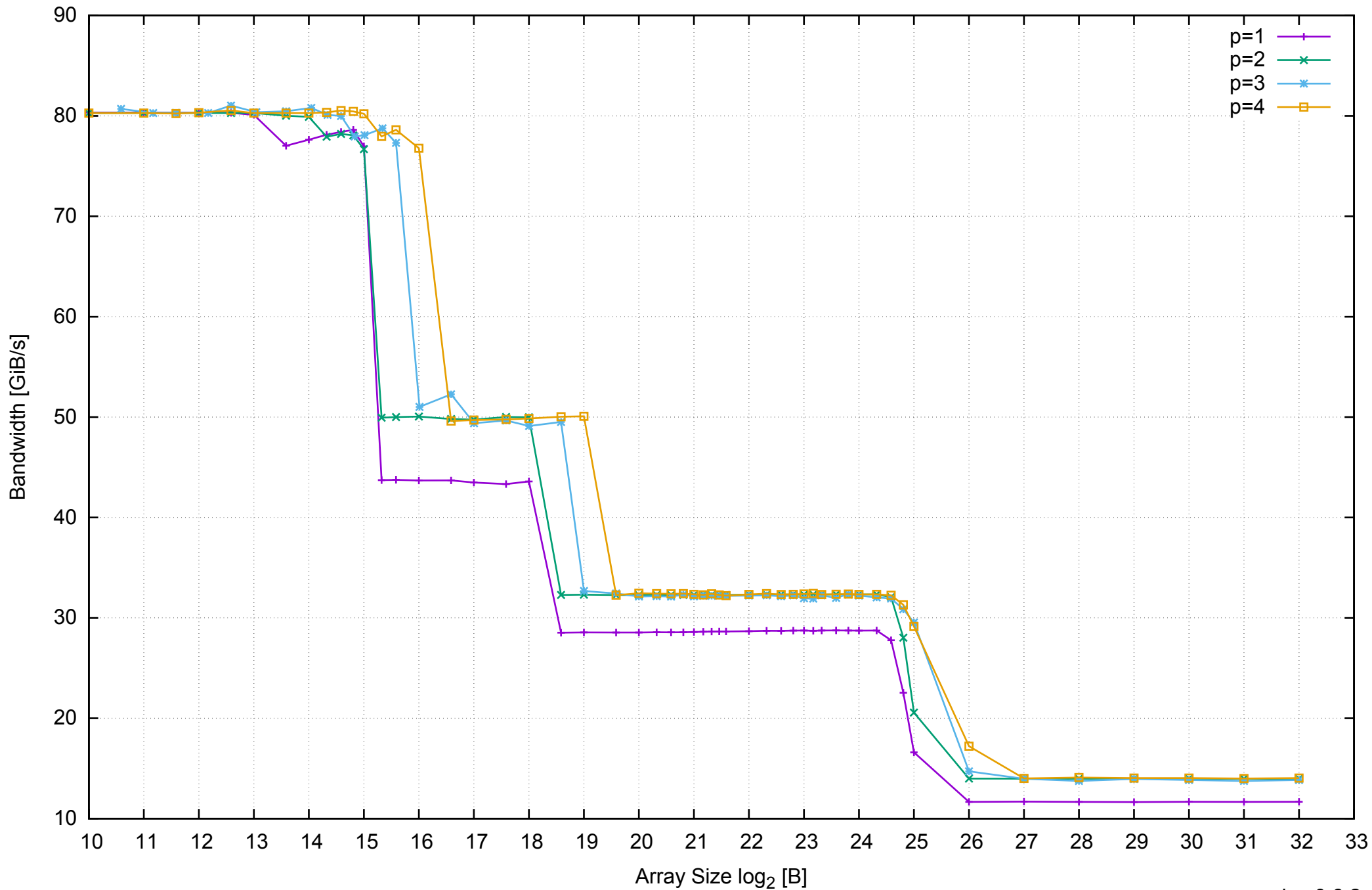


AWS m4.large - Intel Xeon E5-2676 v3, 2.40 GHz 8GB - Speedup of Parallel Memory Bandwidth (enlarged) - ScanRead128PtrSimpleLoop

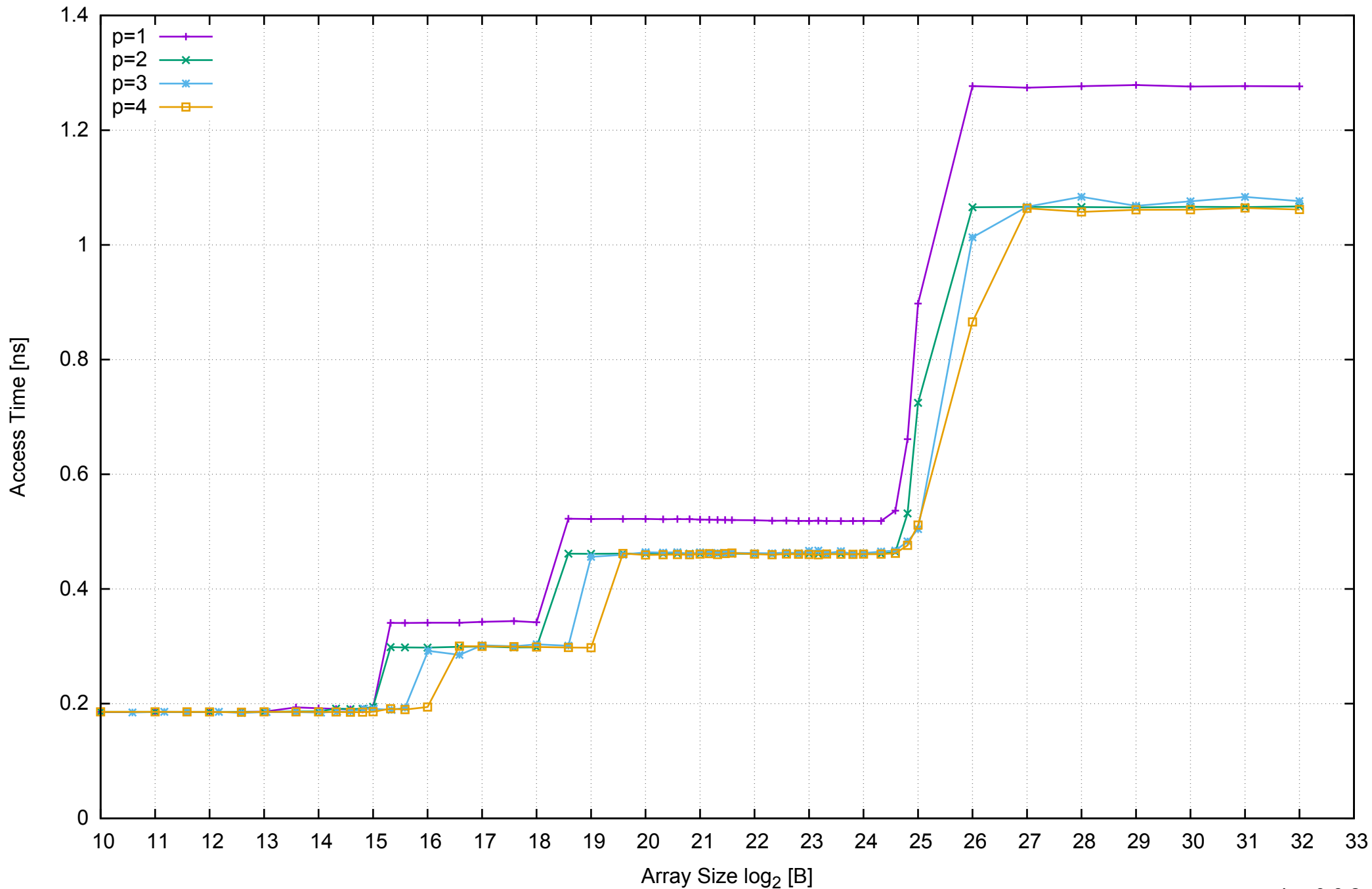




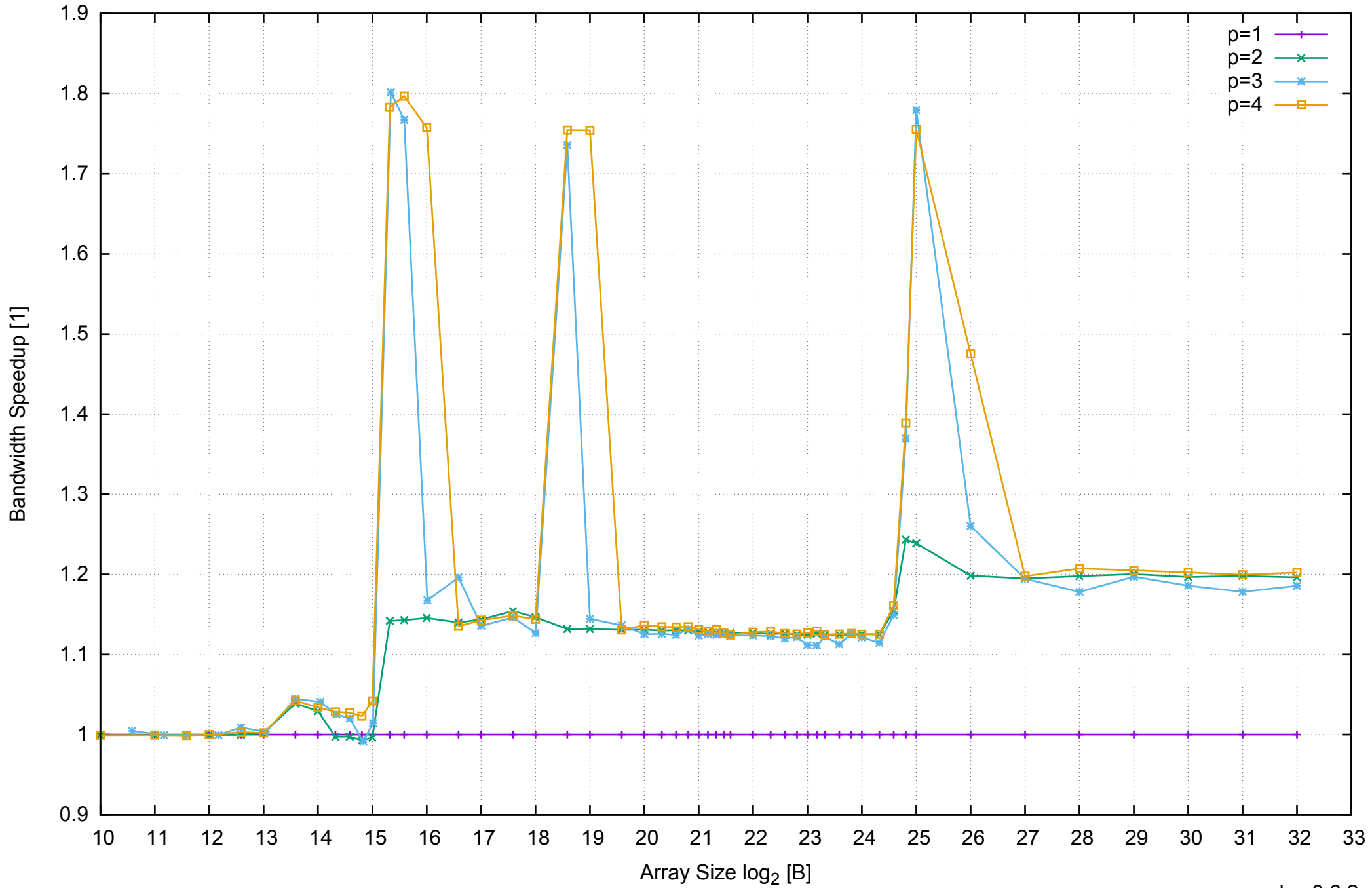
AWS m4.large - Intel Xeon E5-2676 v3, 2.40 GHz 8GB - Parallel Memory Bandwidth - ScanRead128PtrUnrollLoop

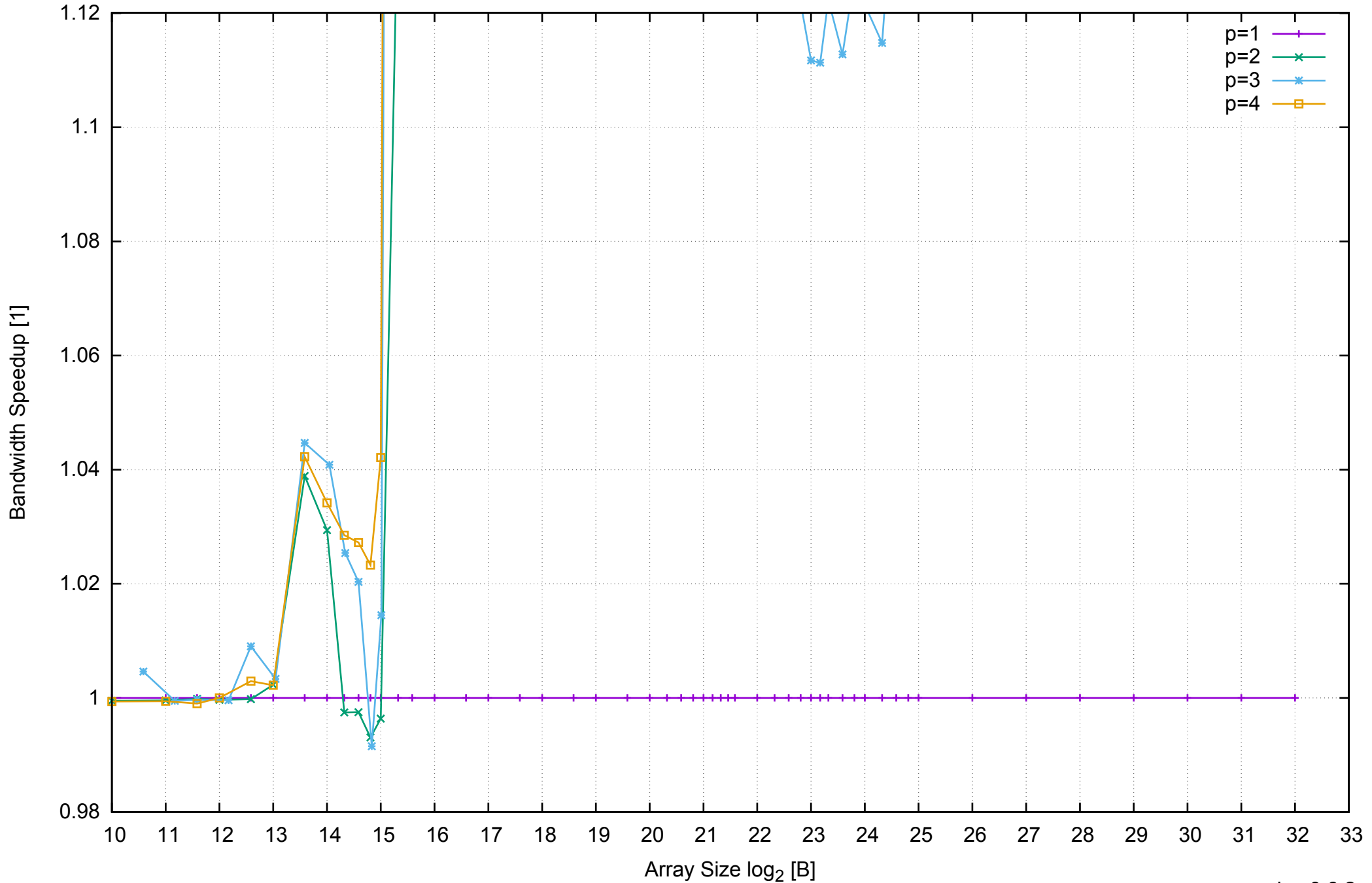


AWS m4.large - Intel Xeon E5-2676 v3, 2.40 GHz 8GB - Parallel Memory Access Time - ScanRead128PtrUnrollLoop

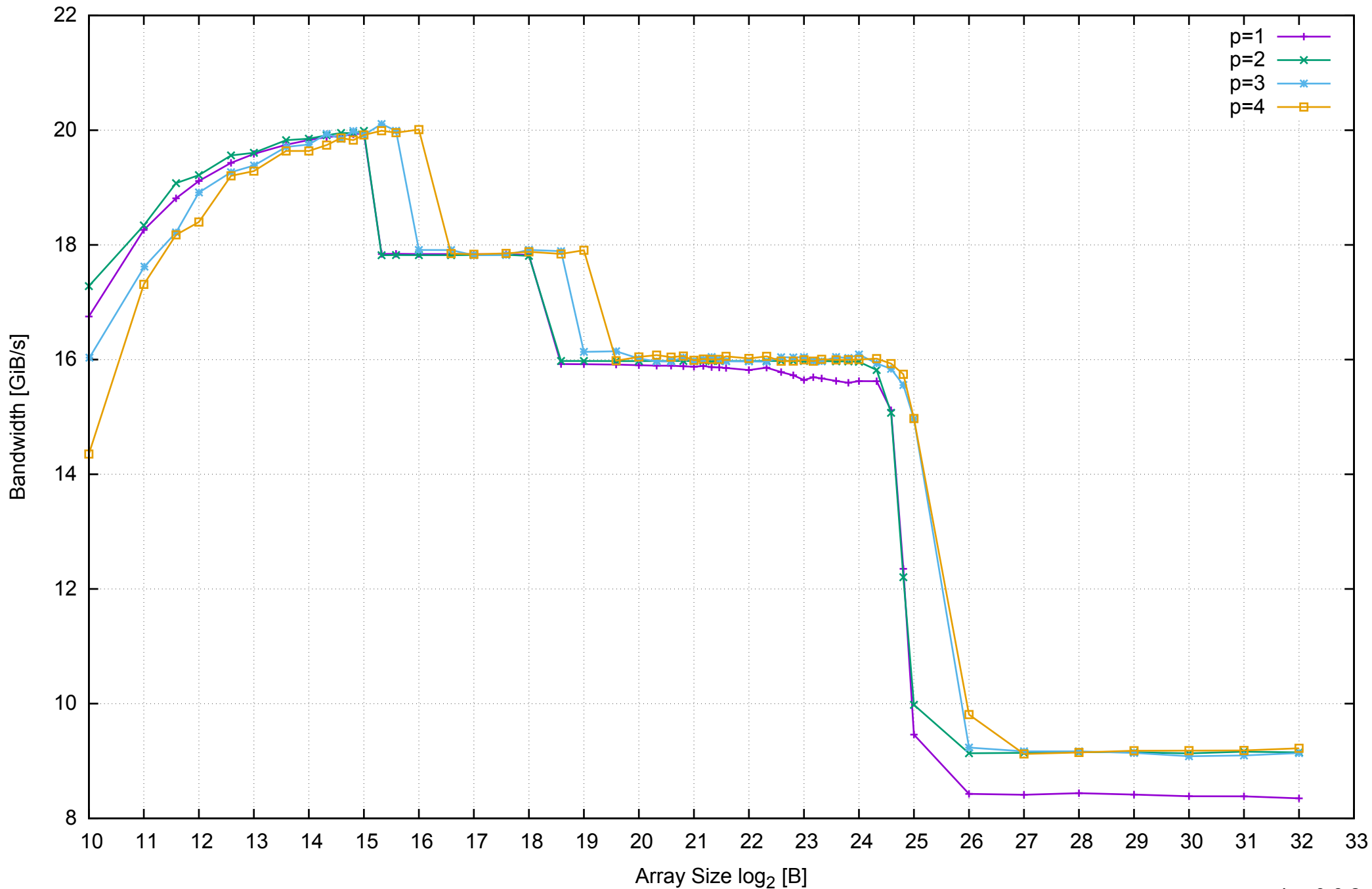


AWS m4.large - Intel Xeon E5-2676 v3, 2.40 GHz 8GB - Speedup of Parallel Memory Bandwidth - ScanRead128PtrUnrollLoop

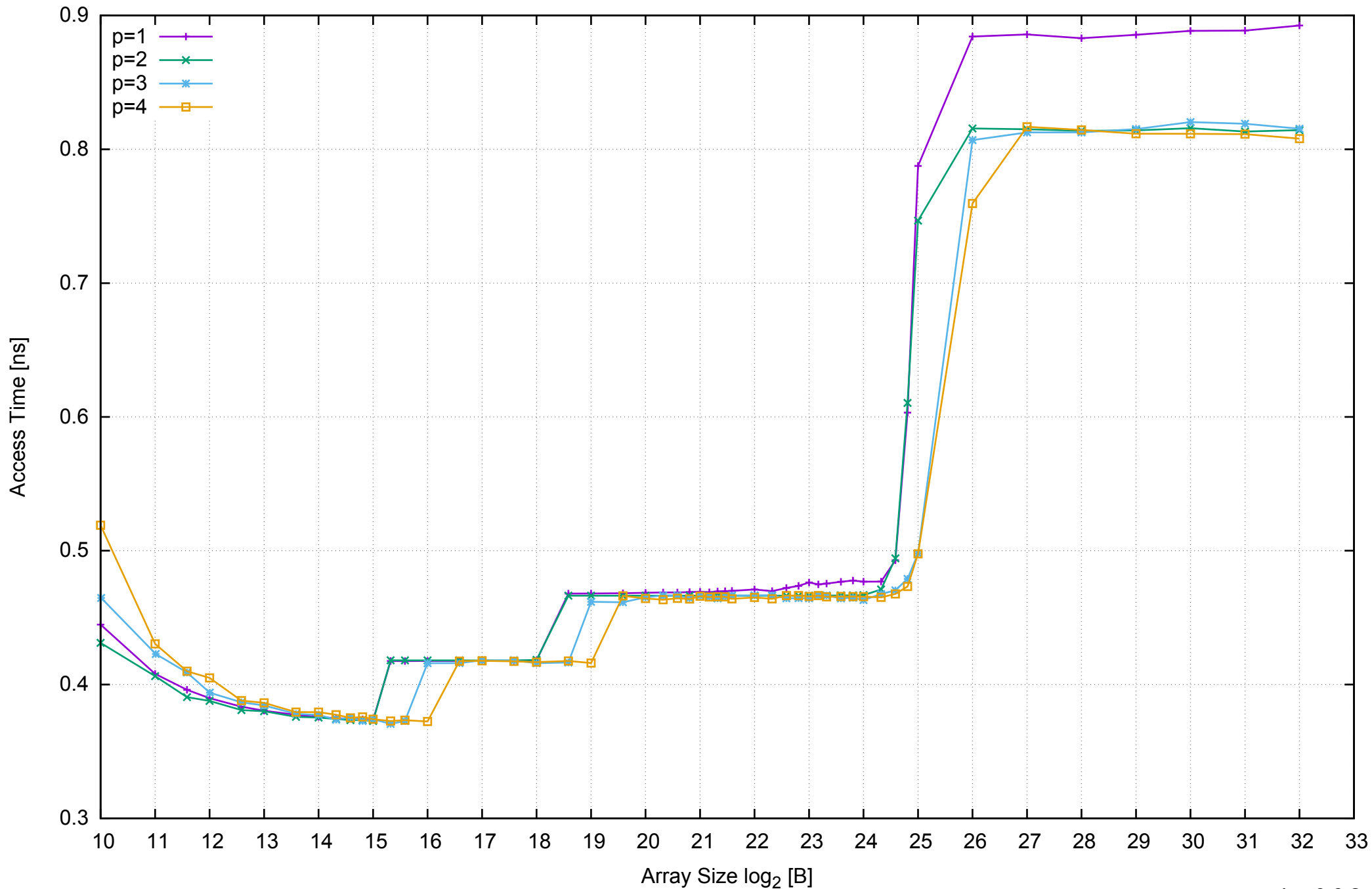




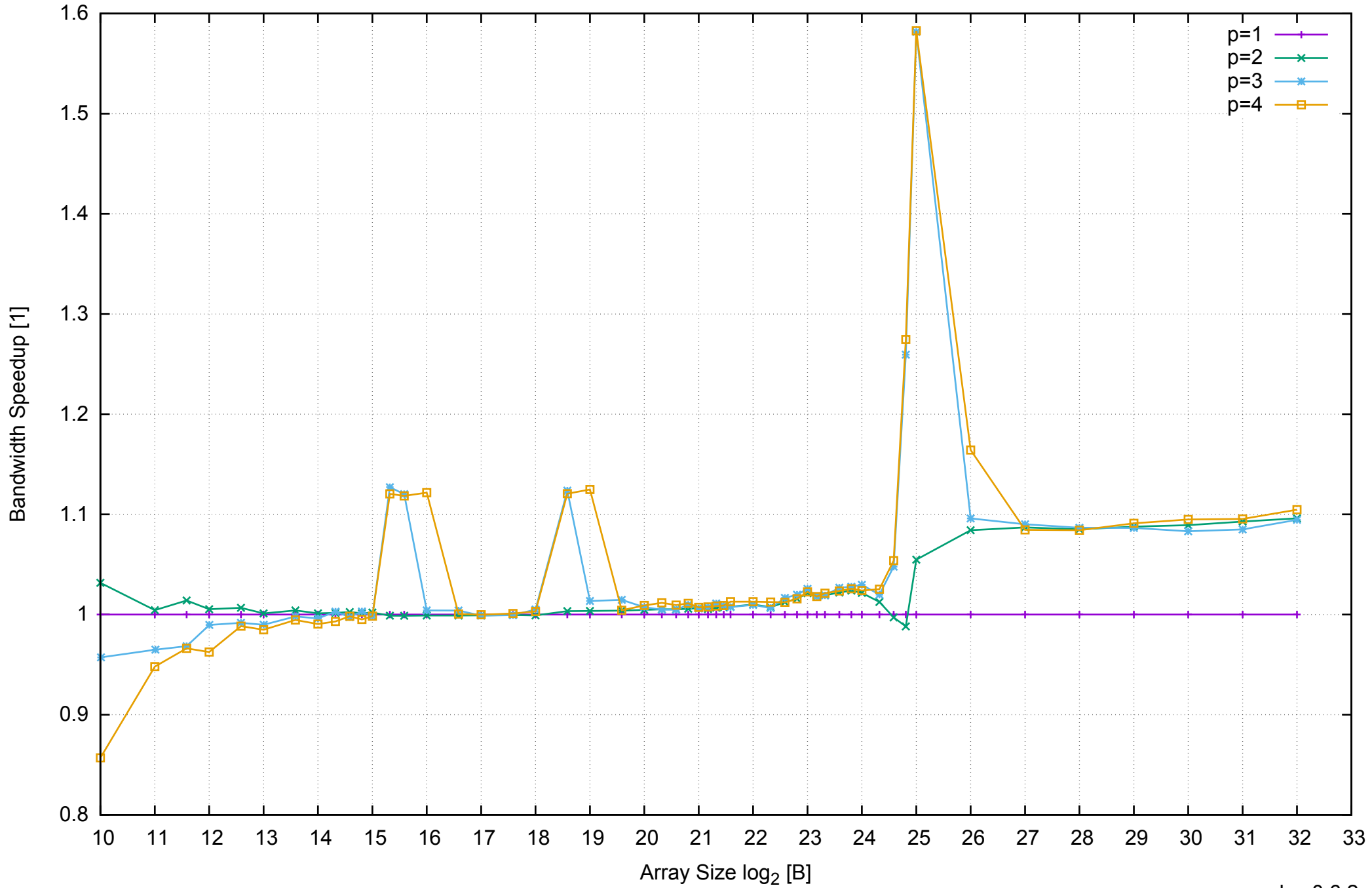
AWS m4.large - Intel Xeon E5-2676 v3, 2.40 GHz 8GB - Parallel Memory Bandwidth - ScanWrite64PtrSimpleLoop



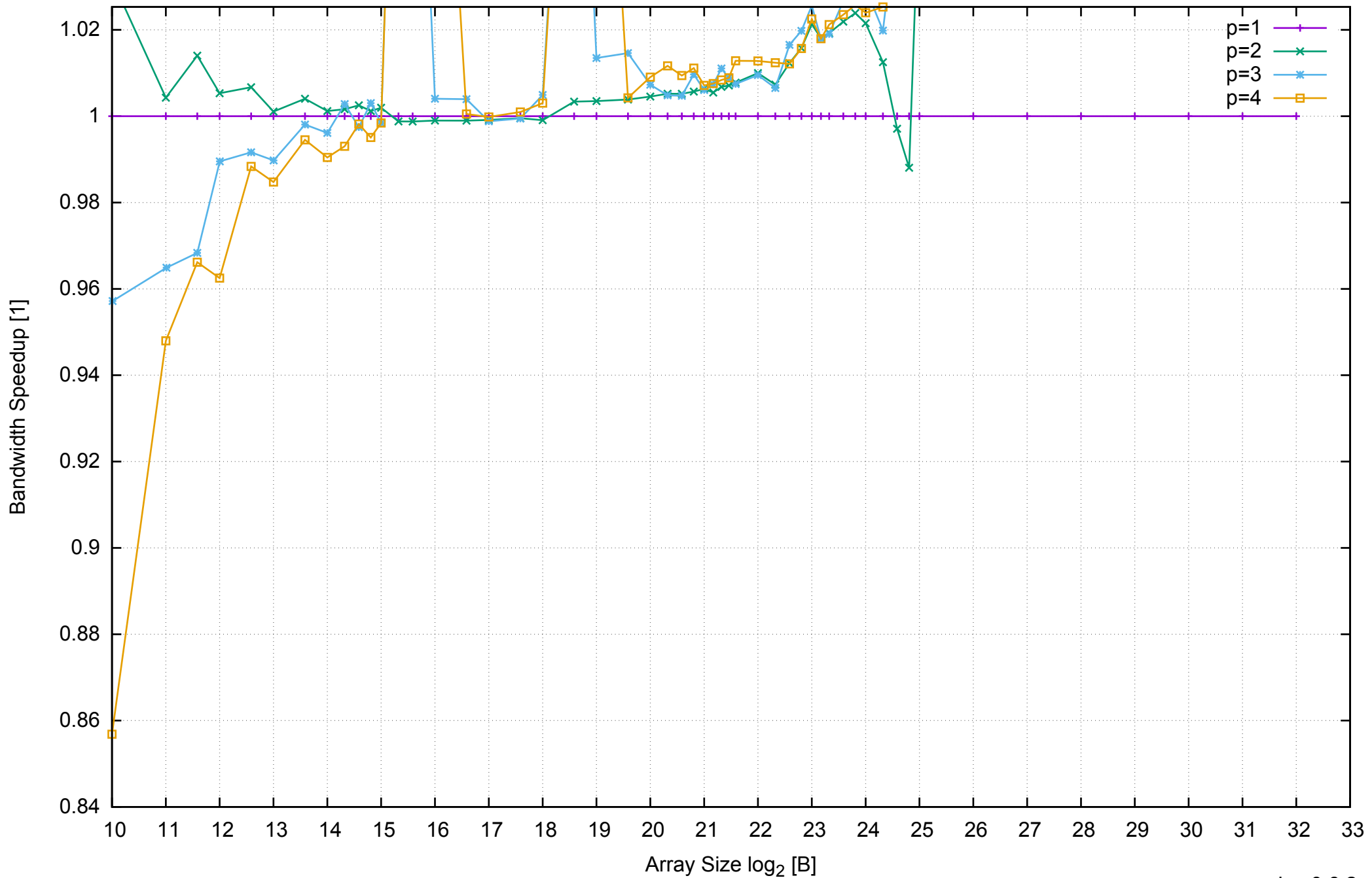
AWS m4.large - Intel Xeon E5-2676 v3, 2.40 GHz 8GB - Parallel Memory Access Time - ScanWrite64PtrSimpleLoop



AWS m4.large - Intel Xeon E5-2676 v3, 2.40 GHz 8GB - Speedup of Parallel Memory Bandwidth - ScanWrite64PtrSimpleLoop

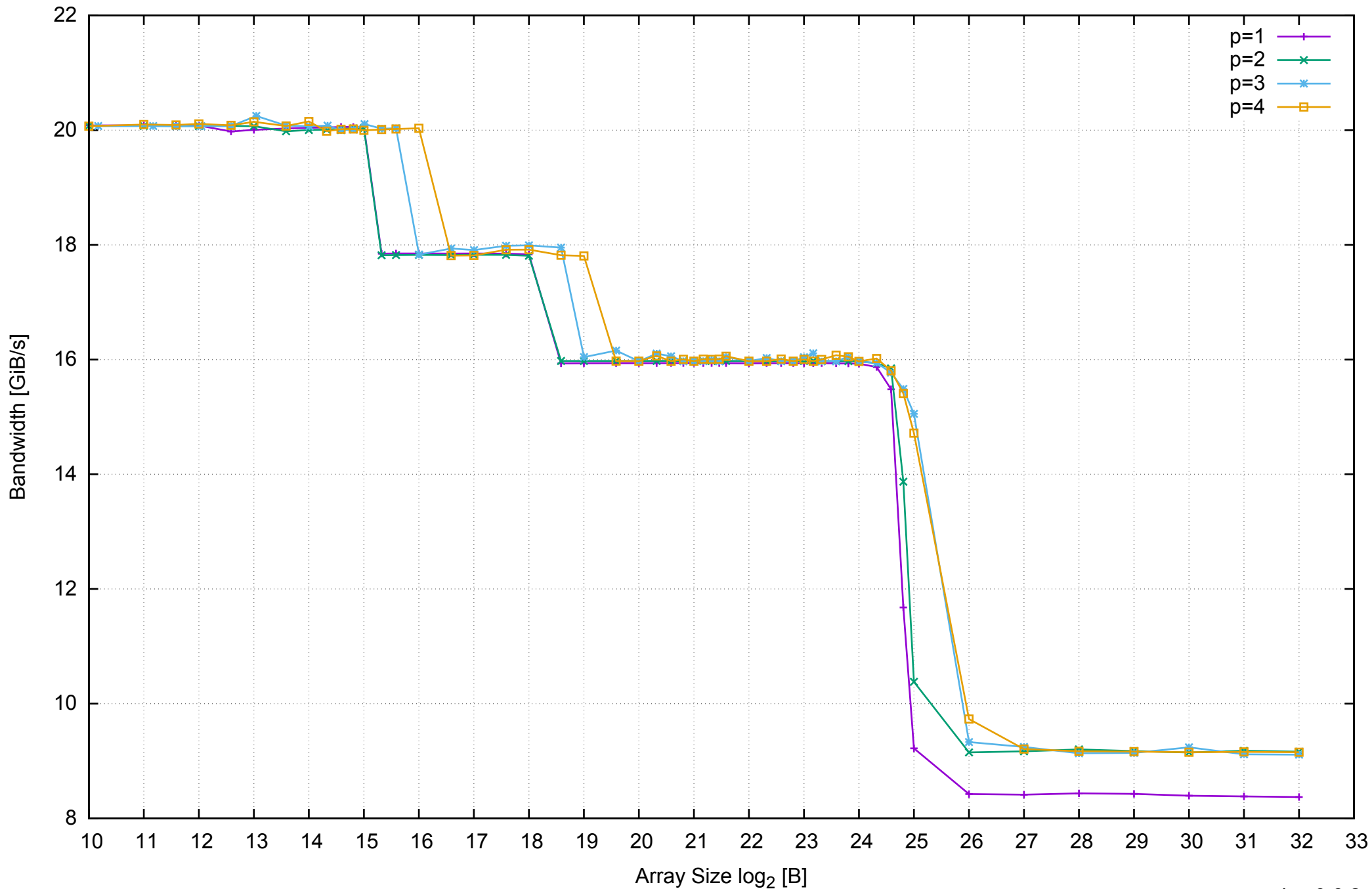


AWS m4.large - Intel Xeon E5-2676 v3, 2.40 GHz 8GB - Speedup of Parallel Memory Bandwidth (enlarged) - ScanWrite64PtrSimpleLoop

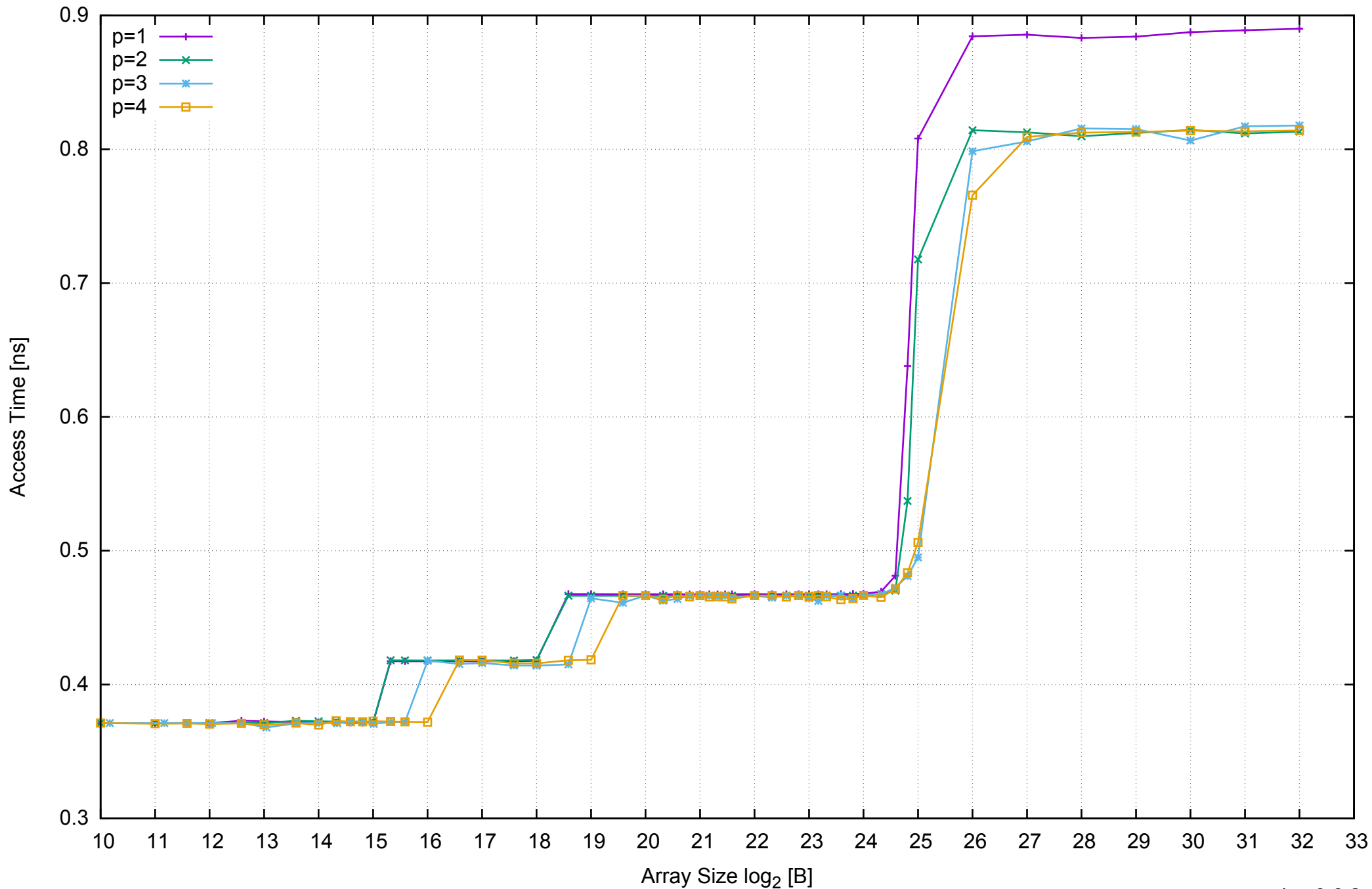




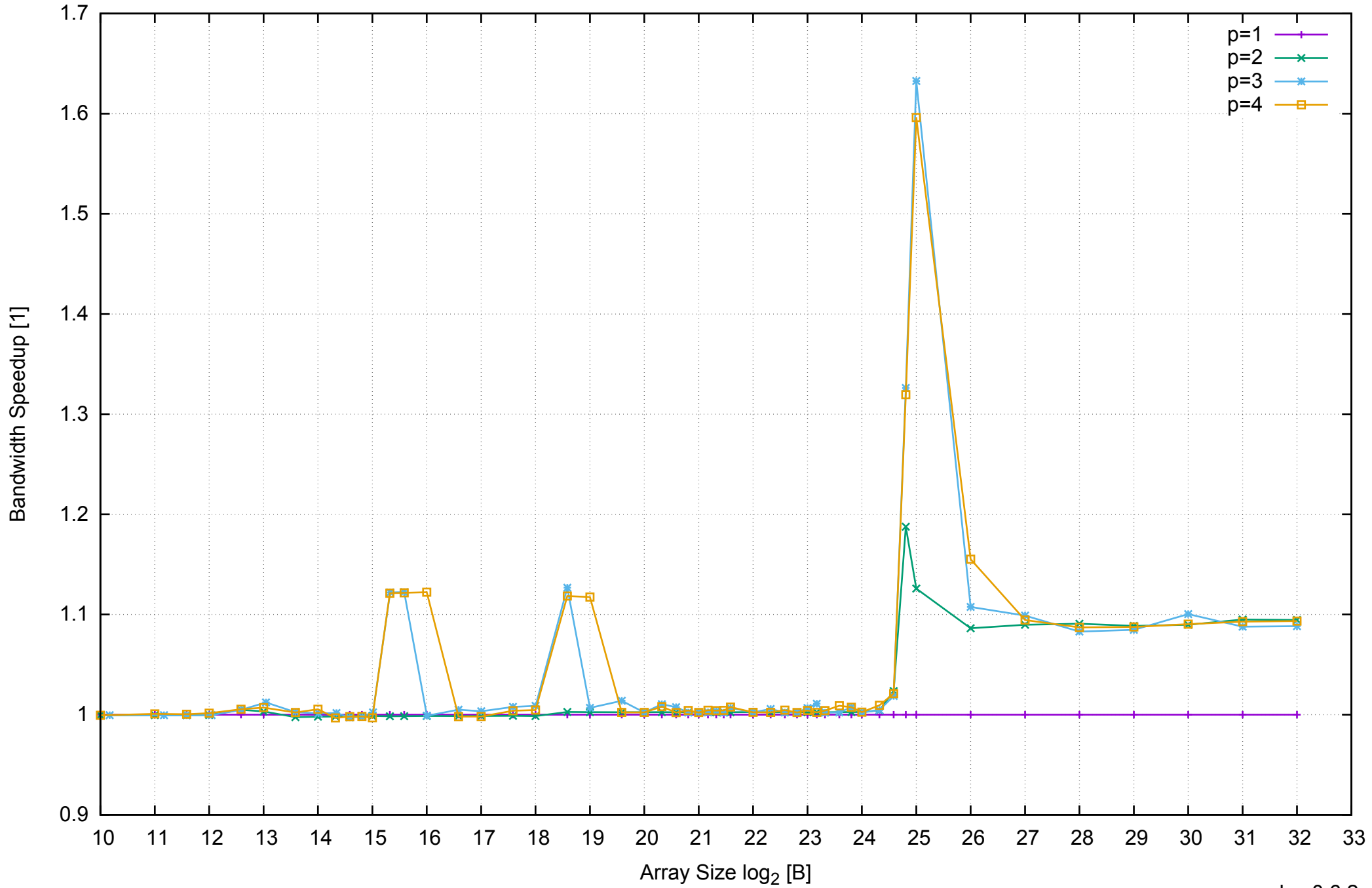
AWS m4.large - Intel Xeon E5-2676 v3, 2.40 GHz 8GB - Parallel Memory Bandwidth - ScanWrite64PtrUnrollLoop



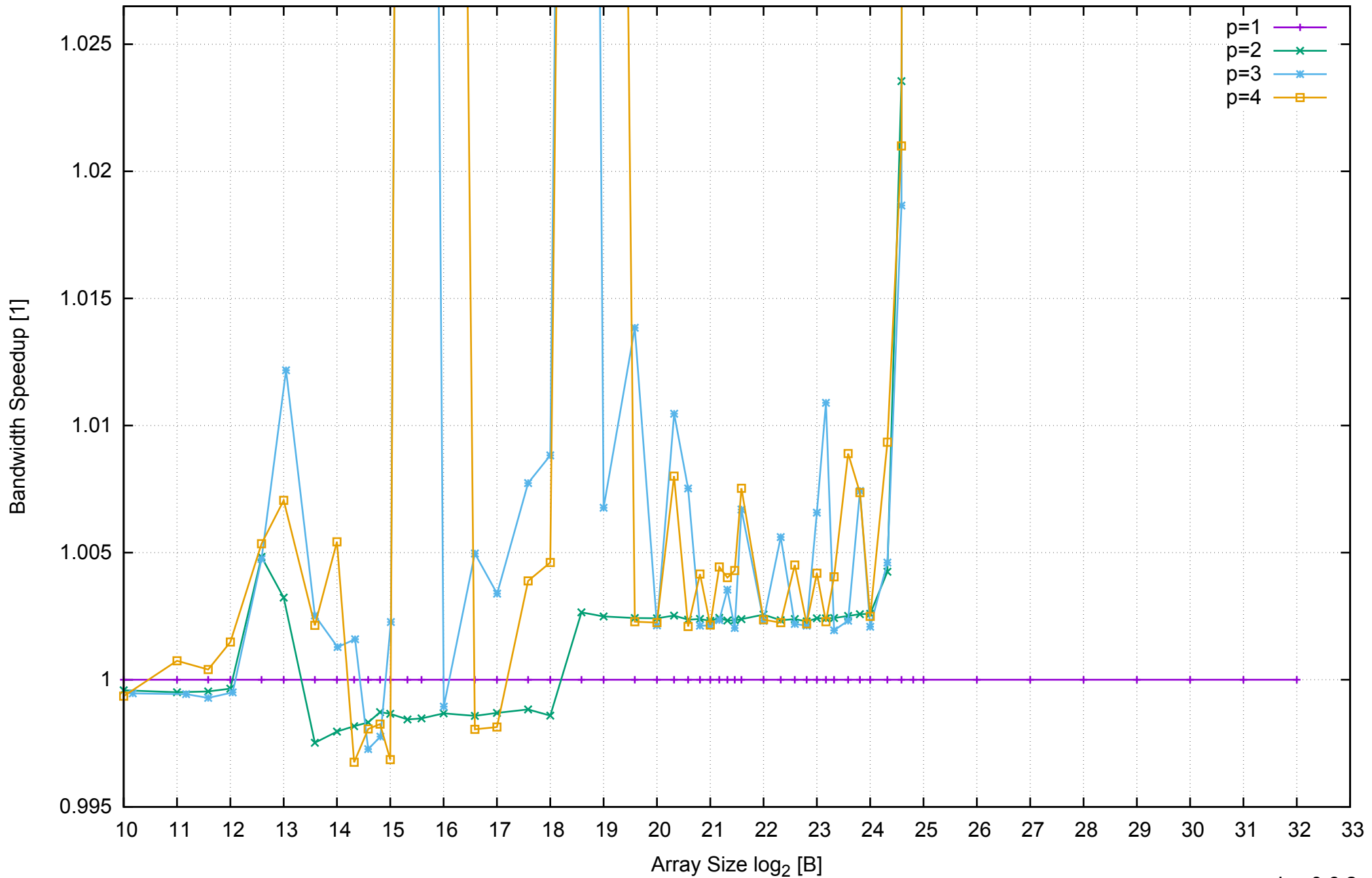
AWS m4.large - Intel Xeon E5-2676 v3, 2.40 GHz 8GB - Parallel Memory Access Time - ScanWrite64PtrUnrollLoop



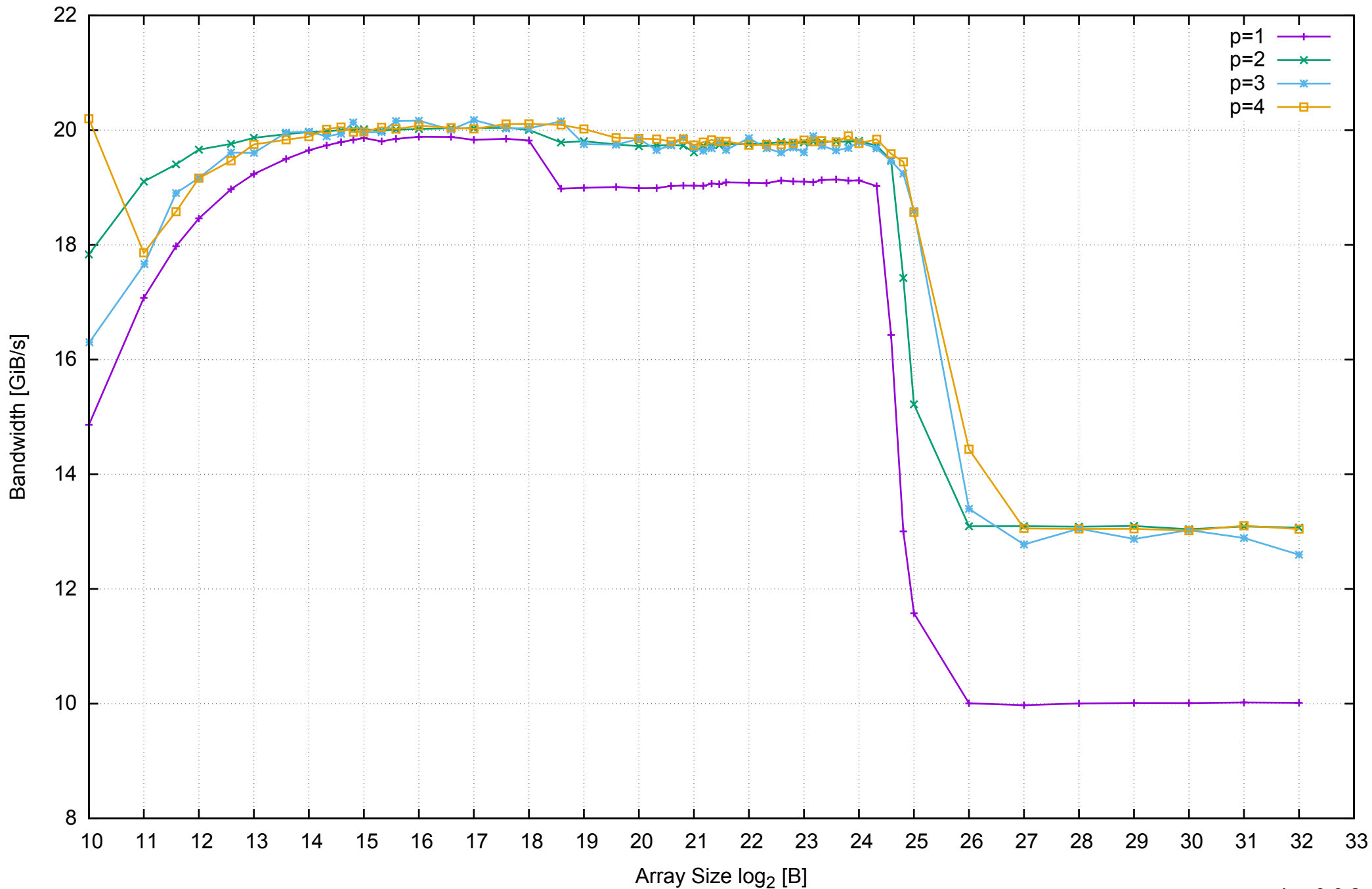
AWS m4.large - Intel Xeon E5-2676 v3, 2.40 GHz 8GB - Speedup of Parallel Memory Bandwidth - ScanWrite64PtrUnrollLoop



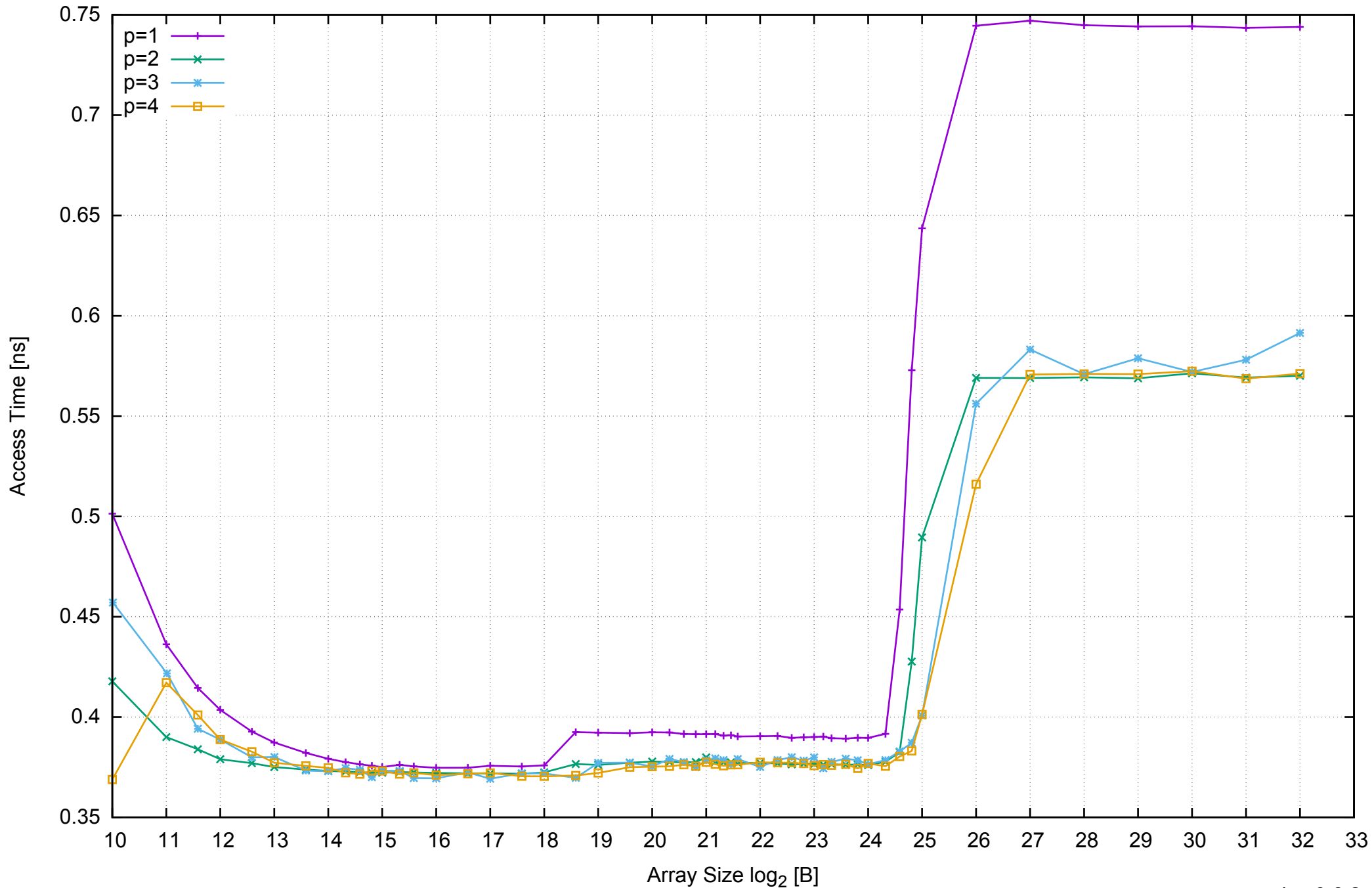
AWS m4.large - Intel Xeon E5-2676 v3, 2.40 GHz 8GB - Speedup of Parallel Memory Bandwidth (enlarged) - ScanWrite64PtrUnrollLoop



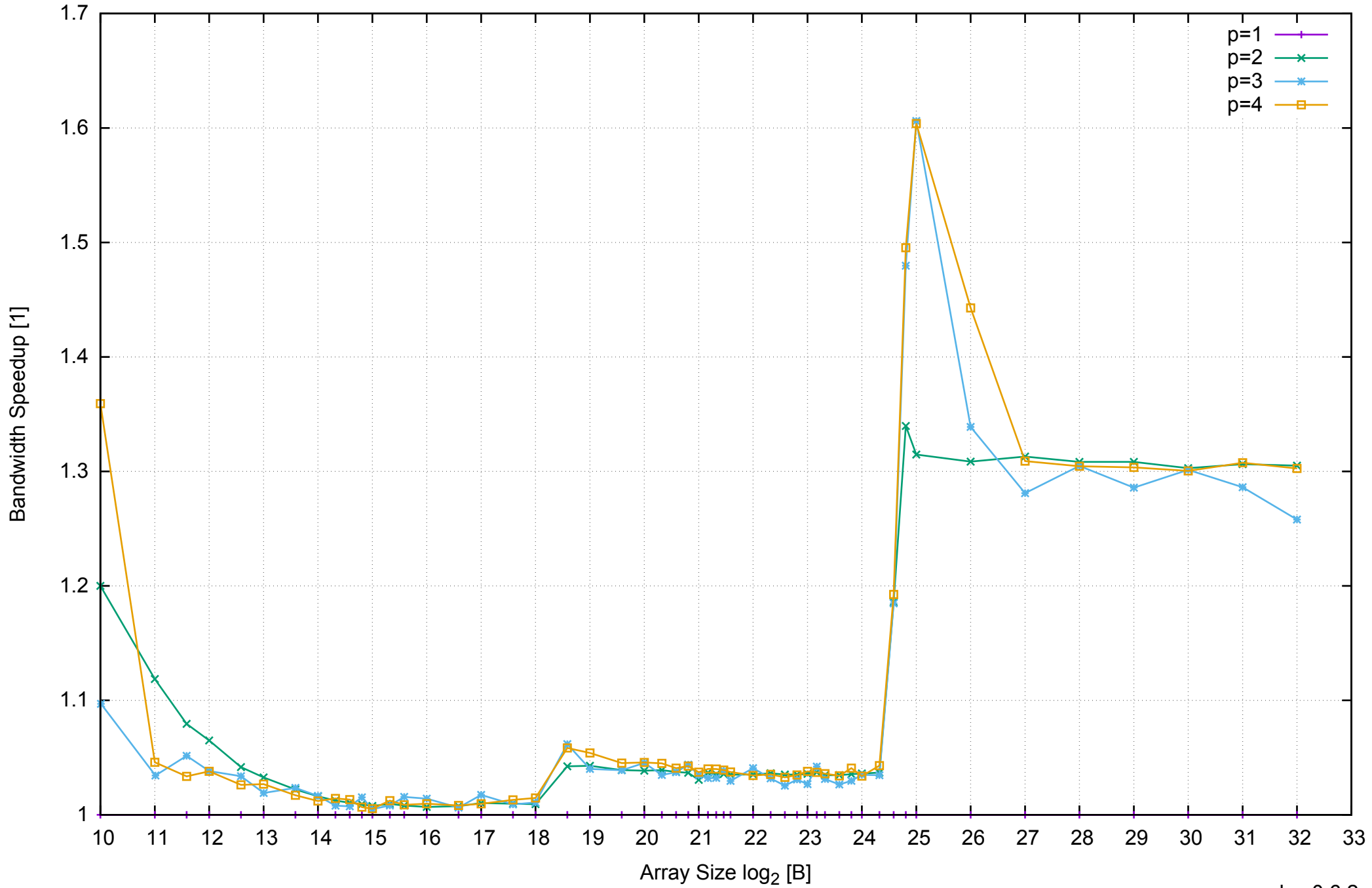
AWS m4.large - Intel Xeon E5-2676 v3, 2.40 GHz 8GB - Parallel Memory Bandwidth - ScanRead64PtrSimpleLoop



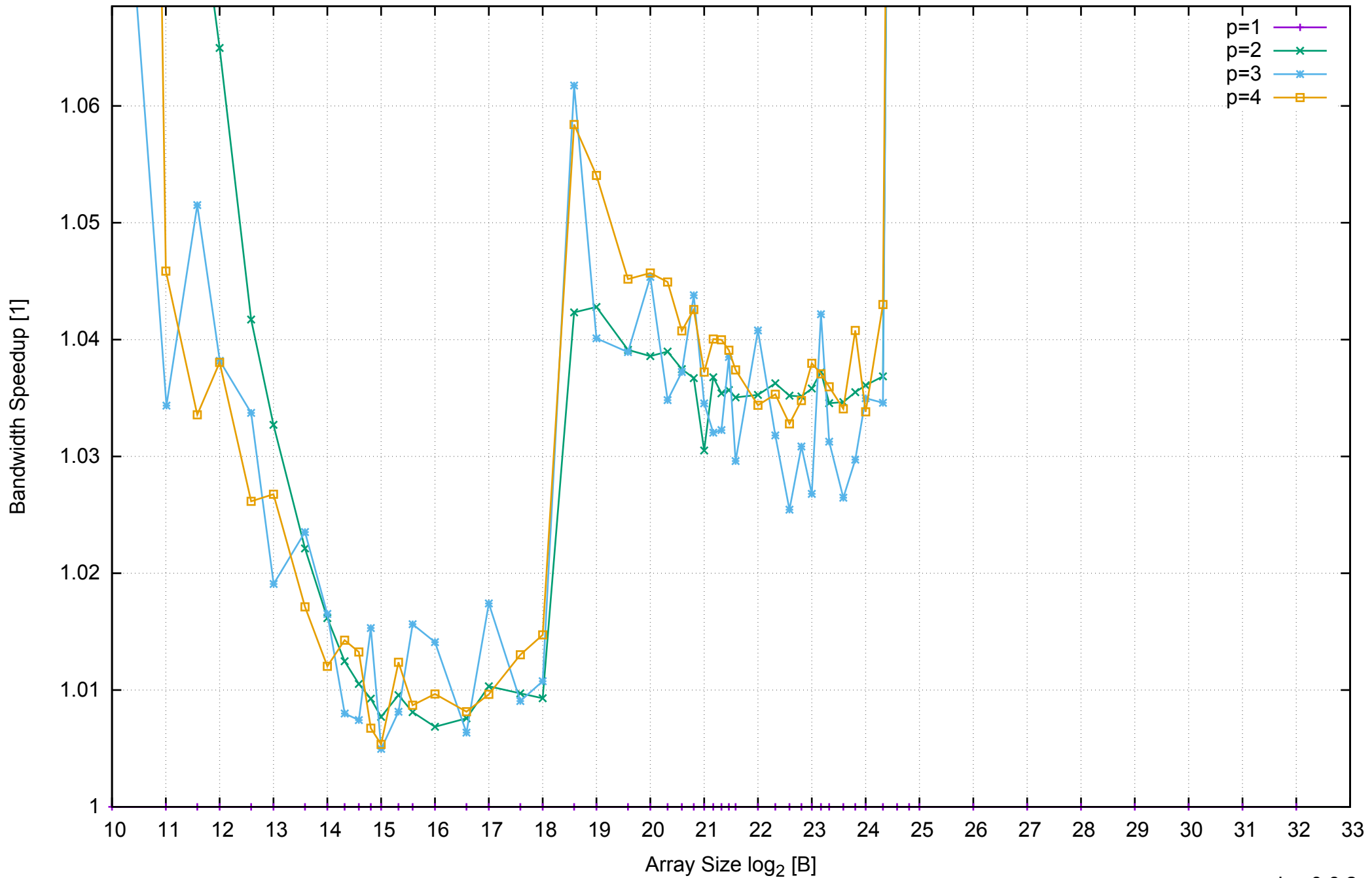
AWS m4.large - Intel Xeon E5-2676 v3, 2.40 GHz 8GB - Parallel Memory Access Time - ScanRead64PtrSimpleLoop



AWS m4.large - Intel Xeon E5-2676 v3, 2.40 GHz 8GB - Speedup of Parallel Memory Bandwidth - ScanRead64PtrSimpleLoop

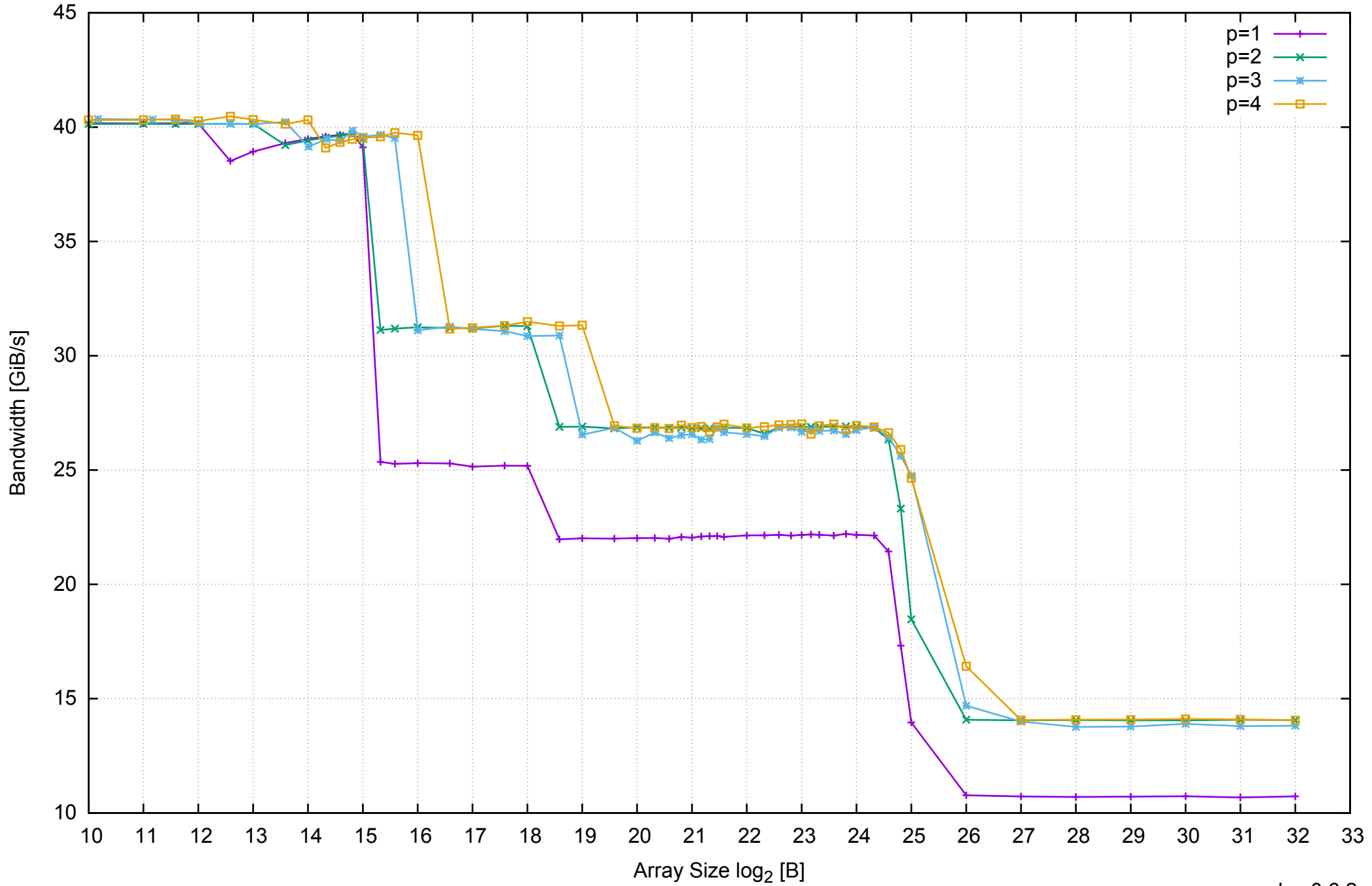


AWS m4.large - Intel Xeon E5-2676 v3, 2.40 GHz 8GB - Speedup of Parallel Memory Bandwidth (enlarged) - ScanRead64PtrSimpleLoop

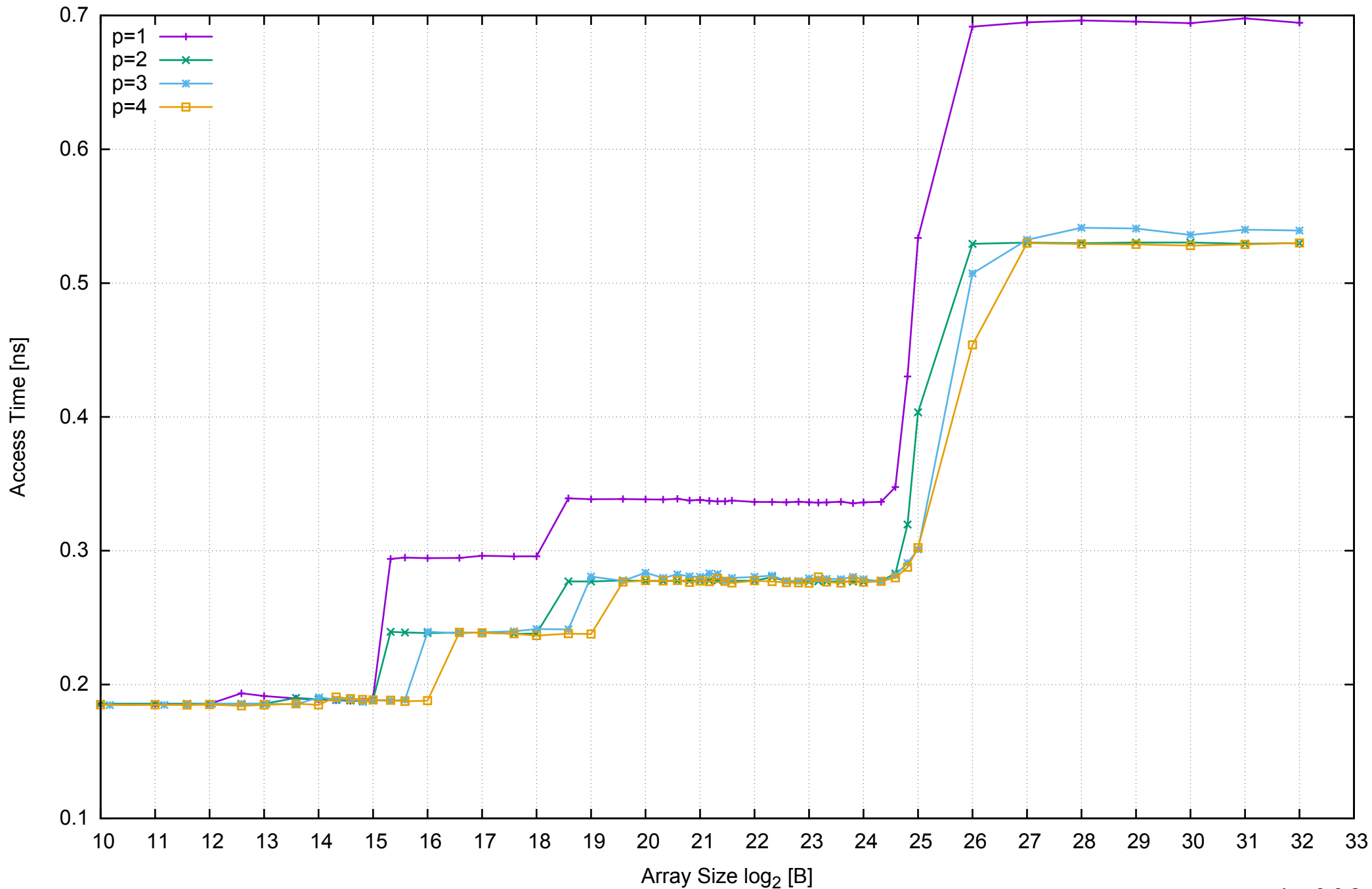




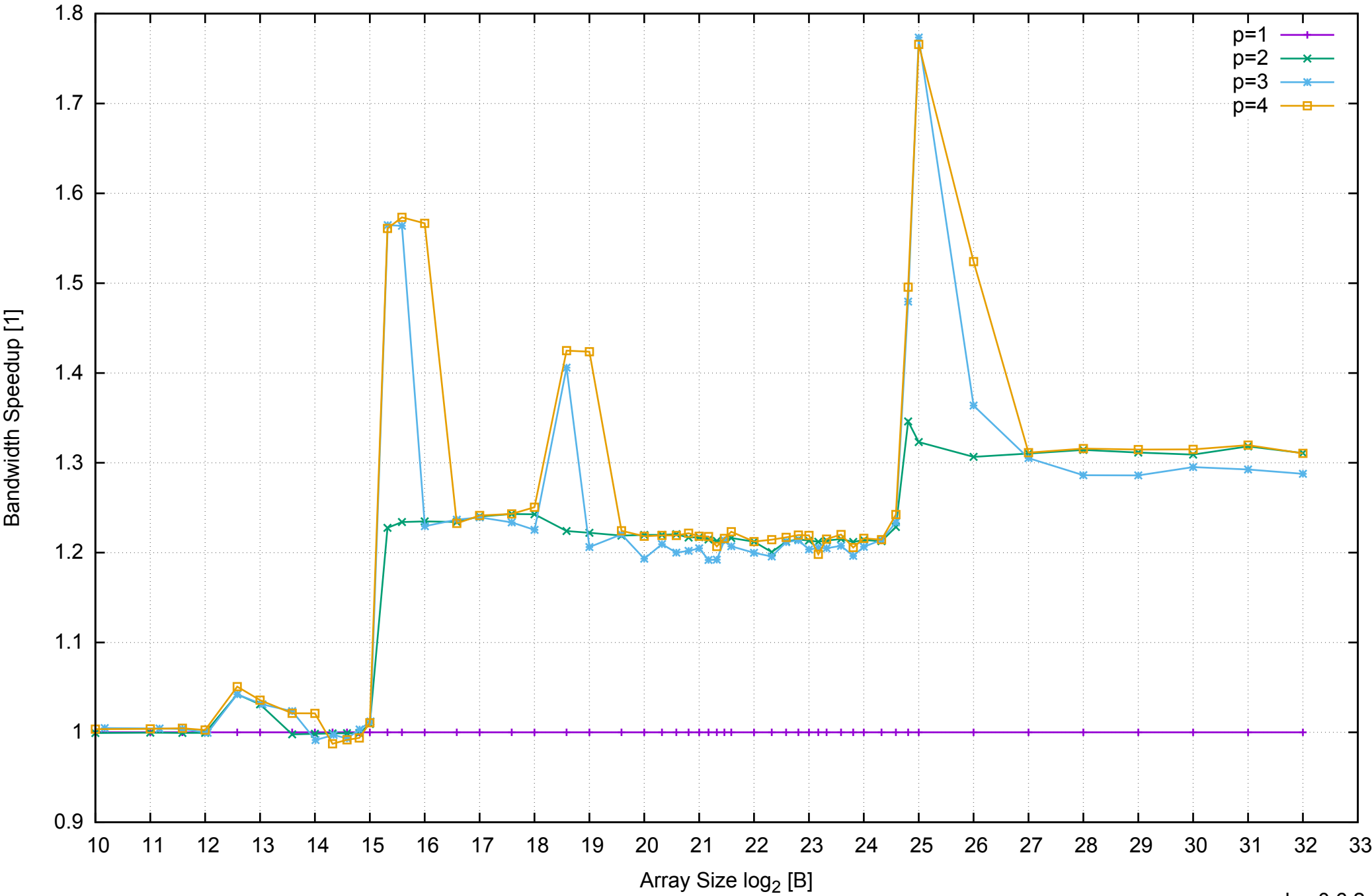
AWS m4.large - Intel Xeon E5-2676 v3, 2.40 GHz 8GB - Parallel Memory Bandwidth - ScanRead64PtrUnrollLoop

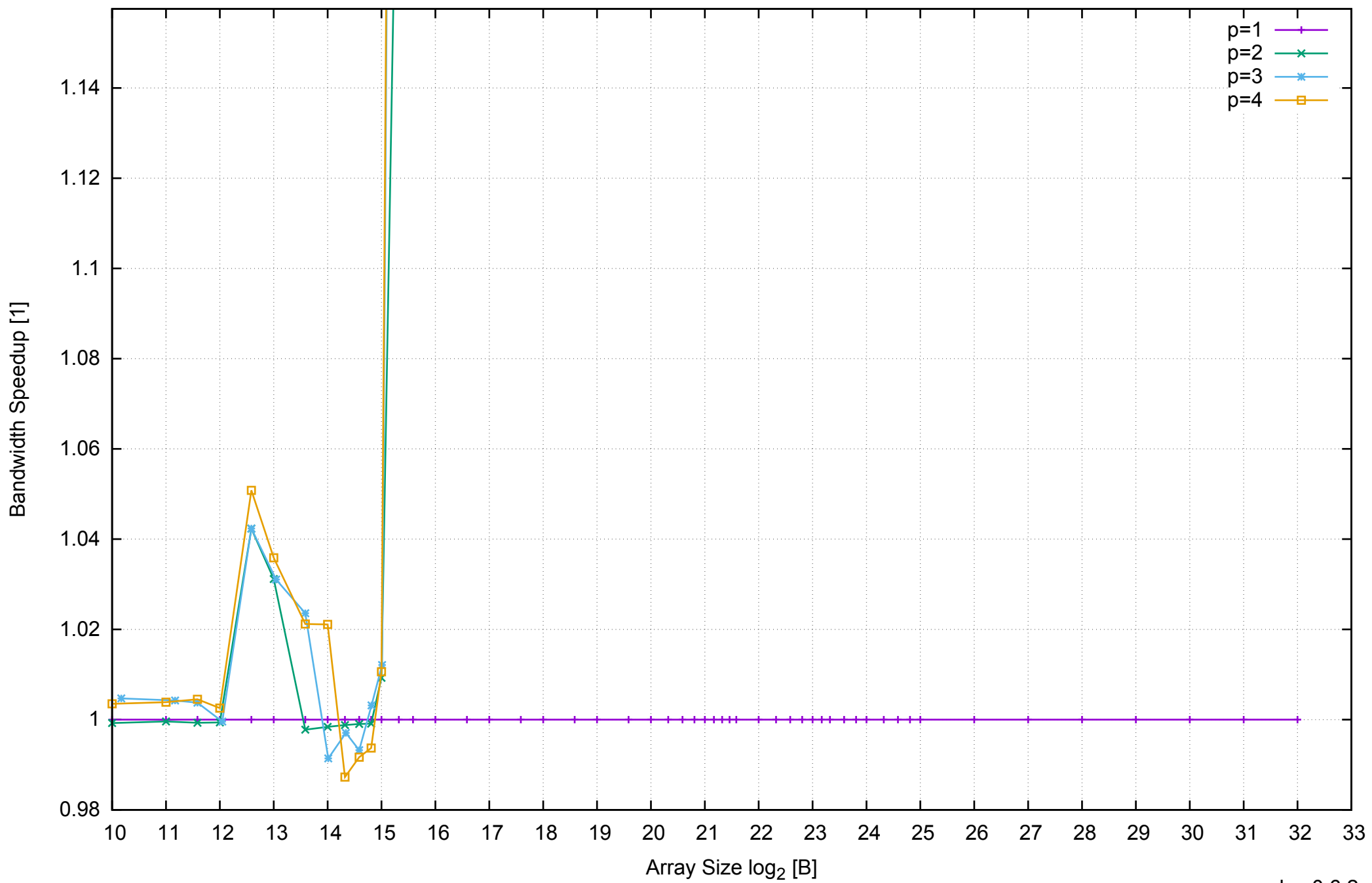


AWS m4.large - Intel Xeon E5-2676 v3, 2.40 GHz 8GB - Parallel Memory Access Time - ScanRead64PtrUnrollLoop

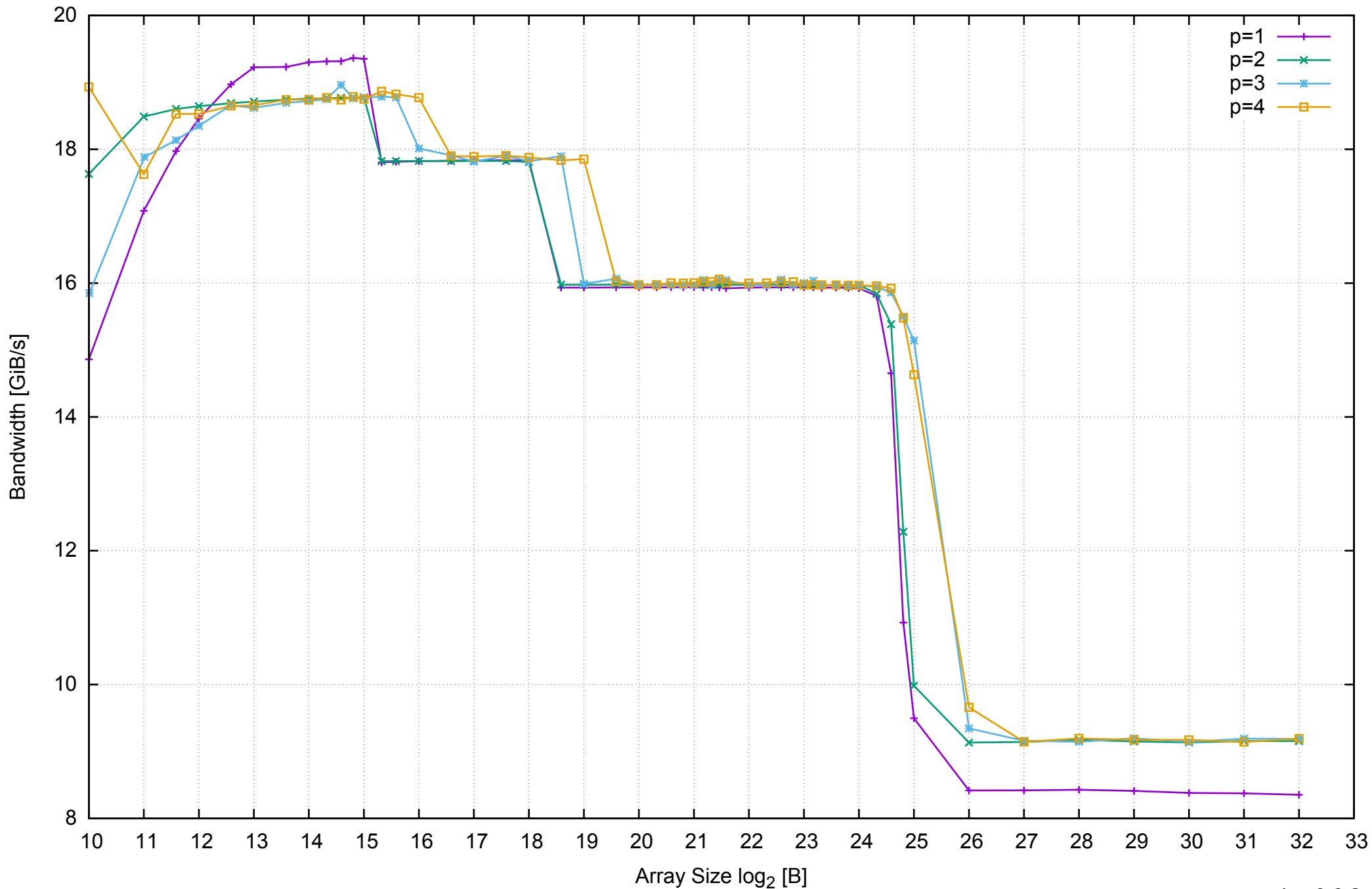


AWS m4.large - Intel Xeon E5-2676 v3, 2.40 GHz 8GB - Speedup of Parallel Memory Bandwidth - ScanRead64PtrUnrollLoop

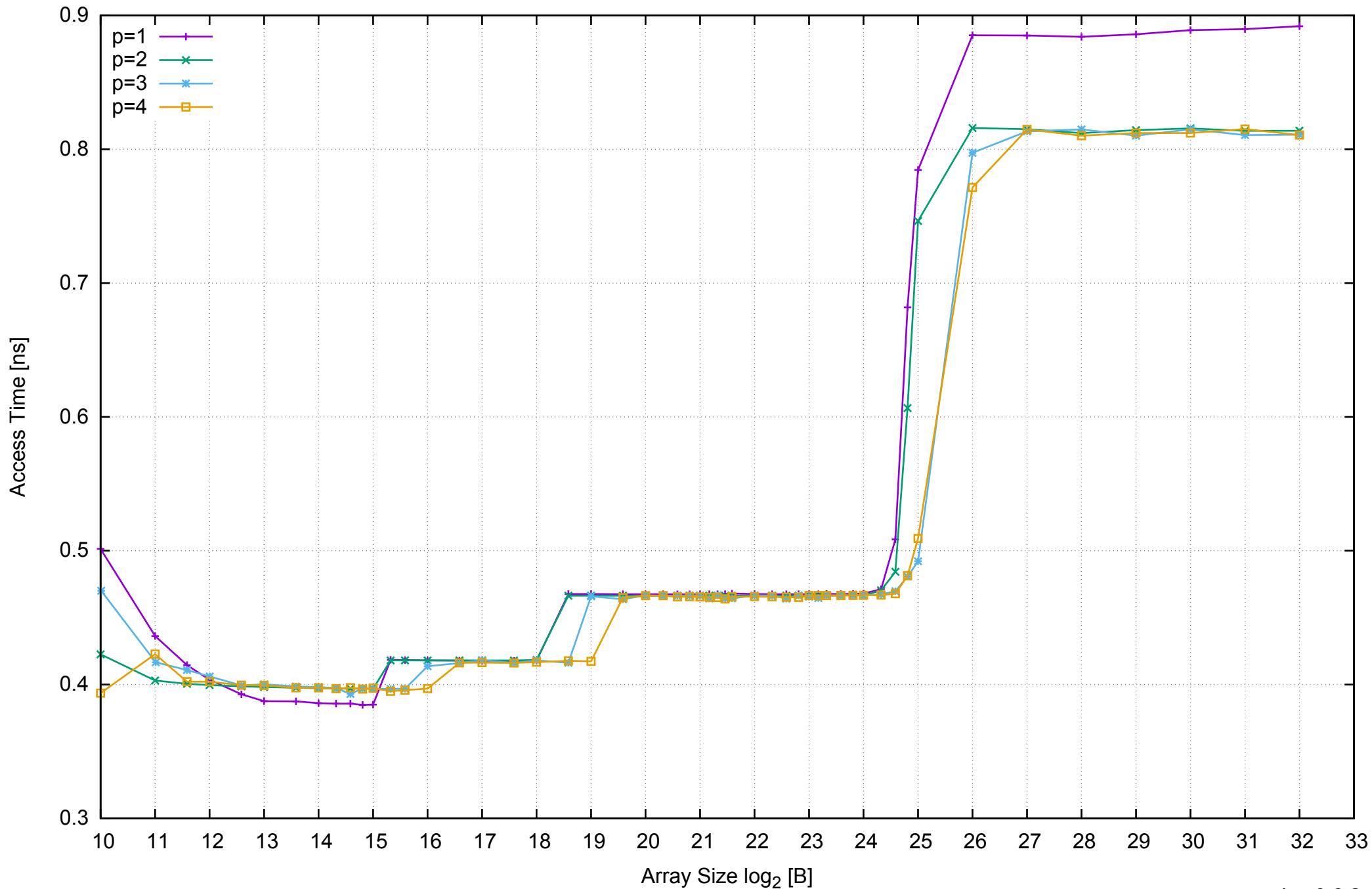




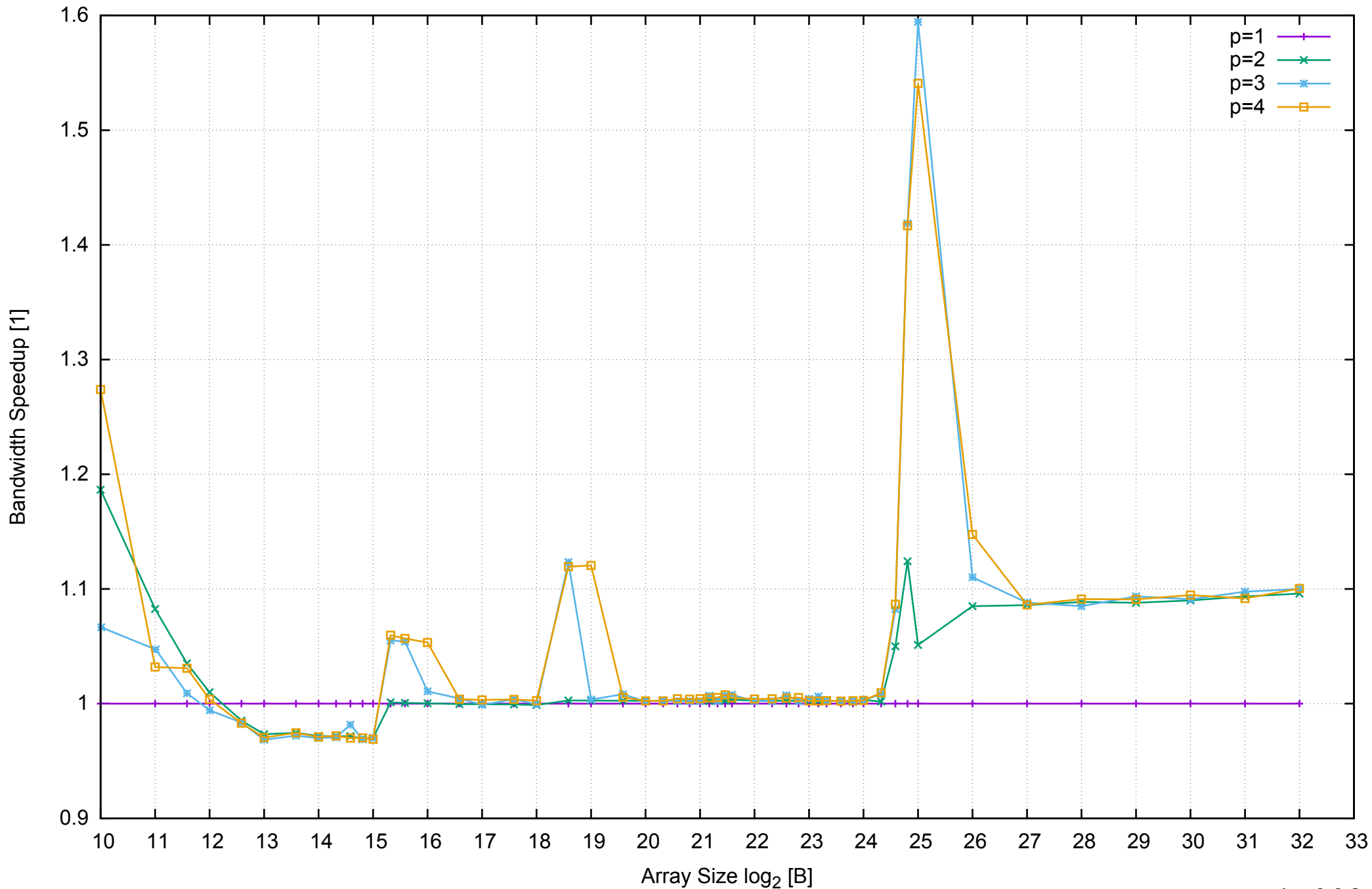
AWS m4.large - Intel Xeon E5-2676 v3, 2.40 GHz 8GB - Parallel Memory Bandwidth - ScanWrite64IndexSimpleLoop



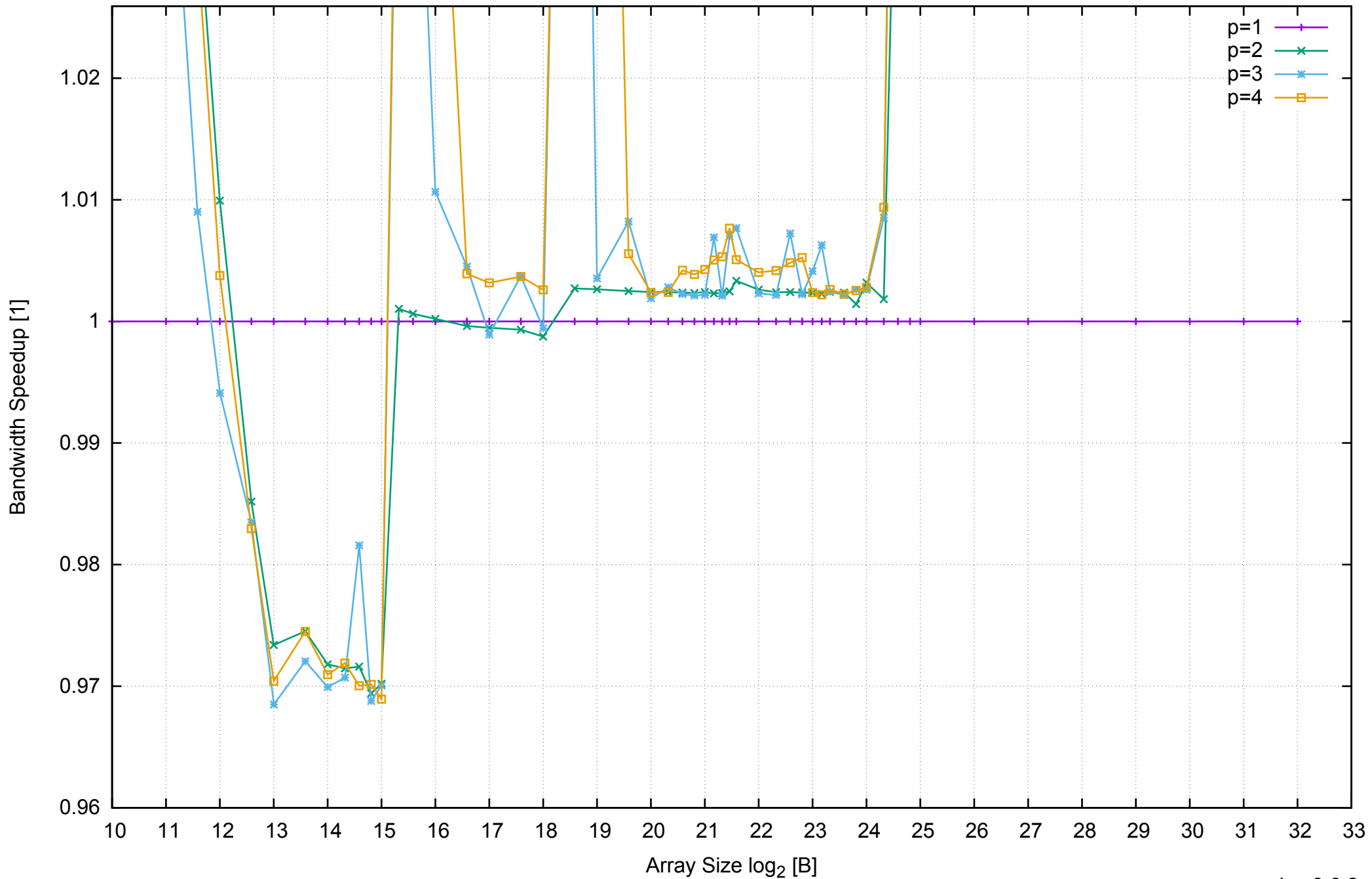
AWS m4.large - Intel Xeon E5-2676 v3, 2.40 GHz 8GB - Parallel Memory Access Time - ScanWrite64IndexSimpleLoop



AWS m4.large - Intel Xeon E5-2676 v3, 2.40 GHz 8GB - Speedup of Parallel Memory Bandwidth - ScanWrite64IndexSimpleLoop

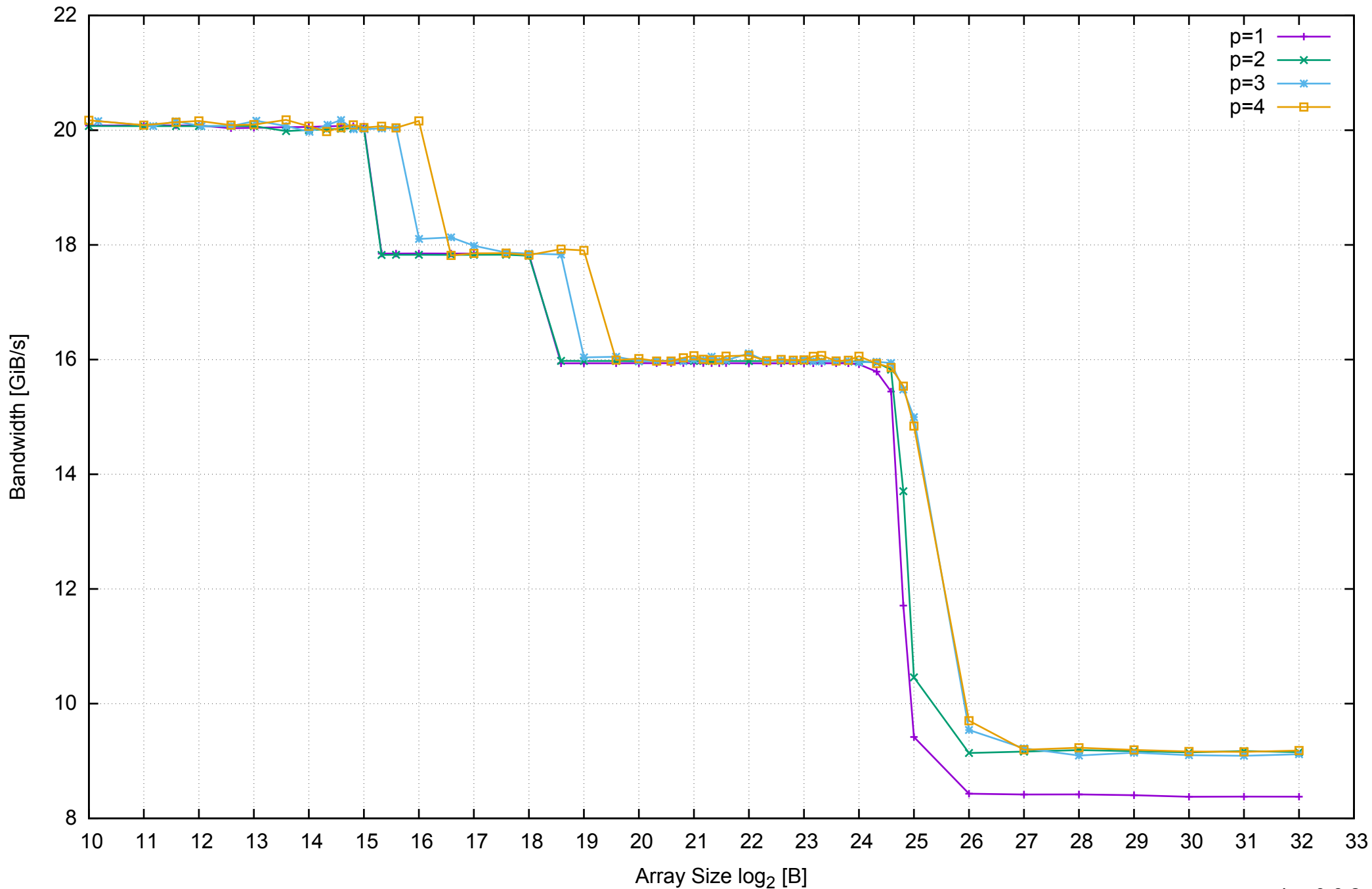


AWS m4.large - Intel Xeon E5-2676 v3, 2.40 GHz 8GB - Speedup of Parallel Memory Bandwidth (enlarged) - ScanWrite64IndexSimpleLoop

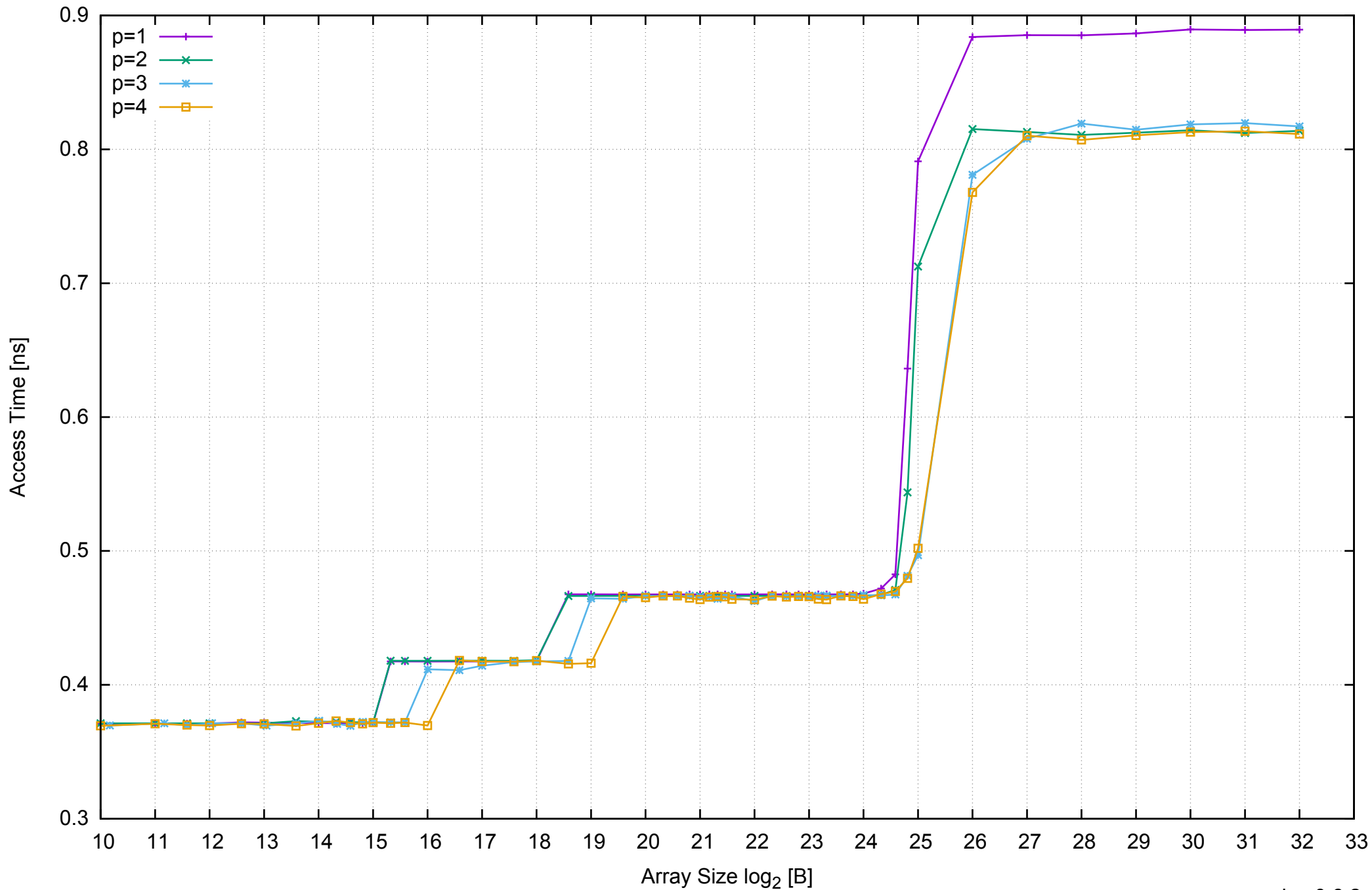




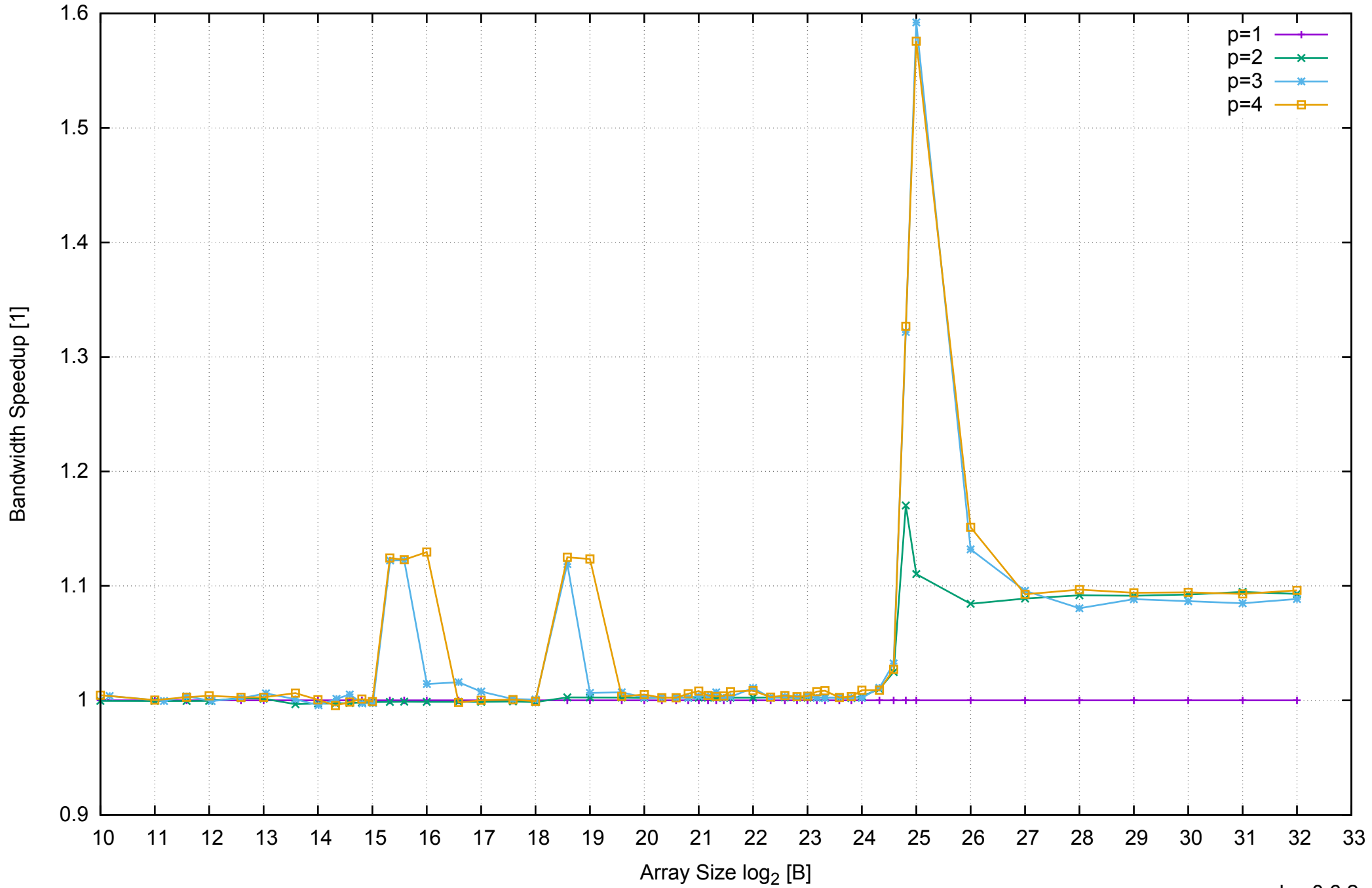
AWS m4.large - Intel Xeon E5-2676 v3, 2.40 GHz 8GB - Parallel Memory Bandwidth - ScanWrite64IndexUnrollLoop

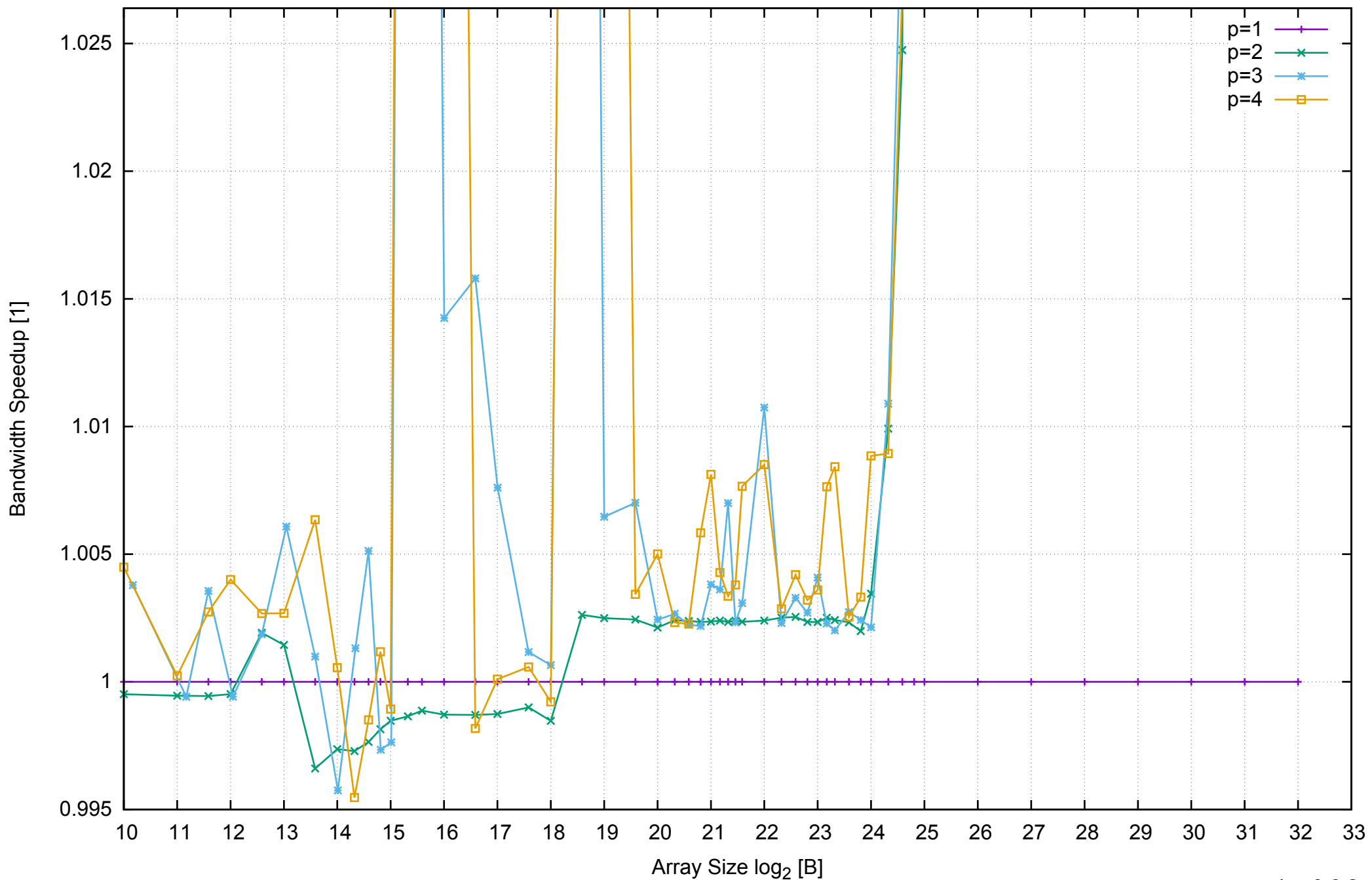


AWS m4.large - Intel Xeon E5-2676 v3, 2.40 GHz 8GB - Parallel Memory Access Time - ScanWrite64IndexUnrollLoop

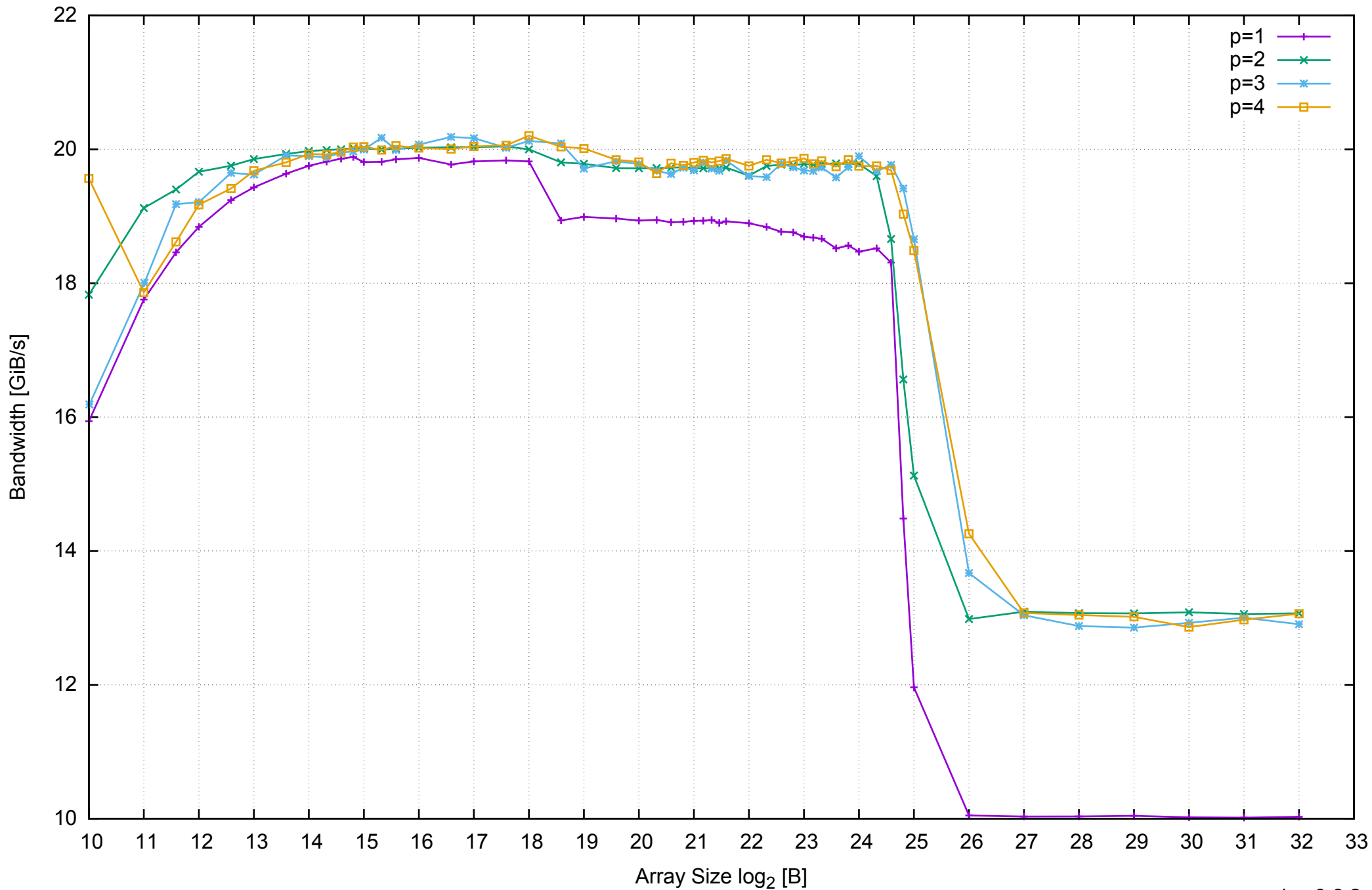


AWS m4.large - Intel Xeon E5-2676 v3, 2.40 GHz 8GB - Speedup of Parallel Memory Bandwidth - ScanWrite64IndexUnrollLoop

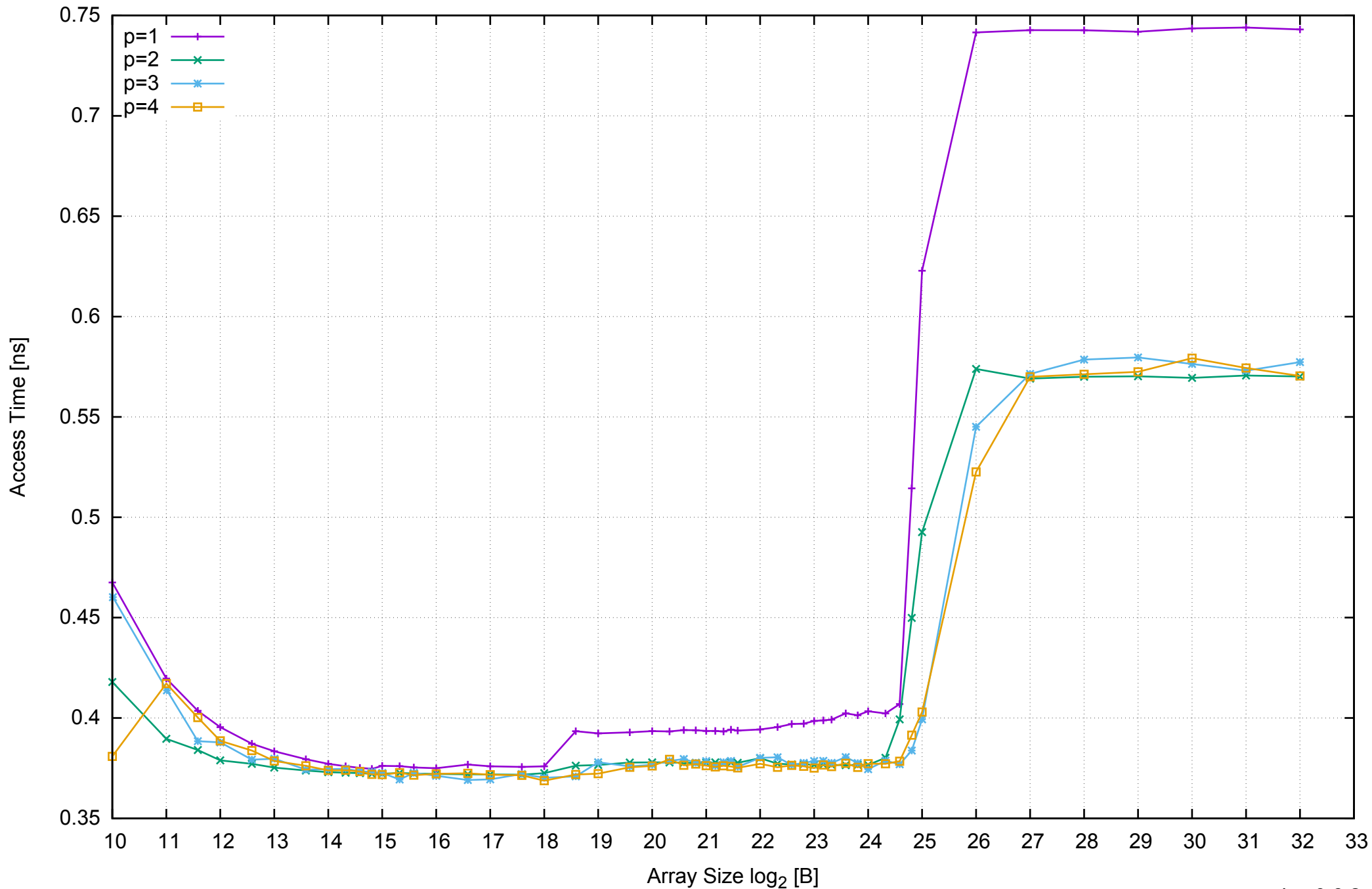




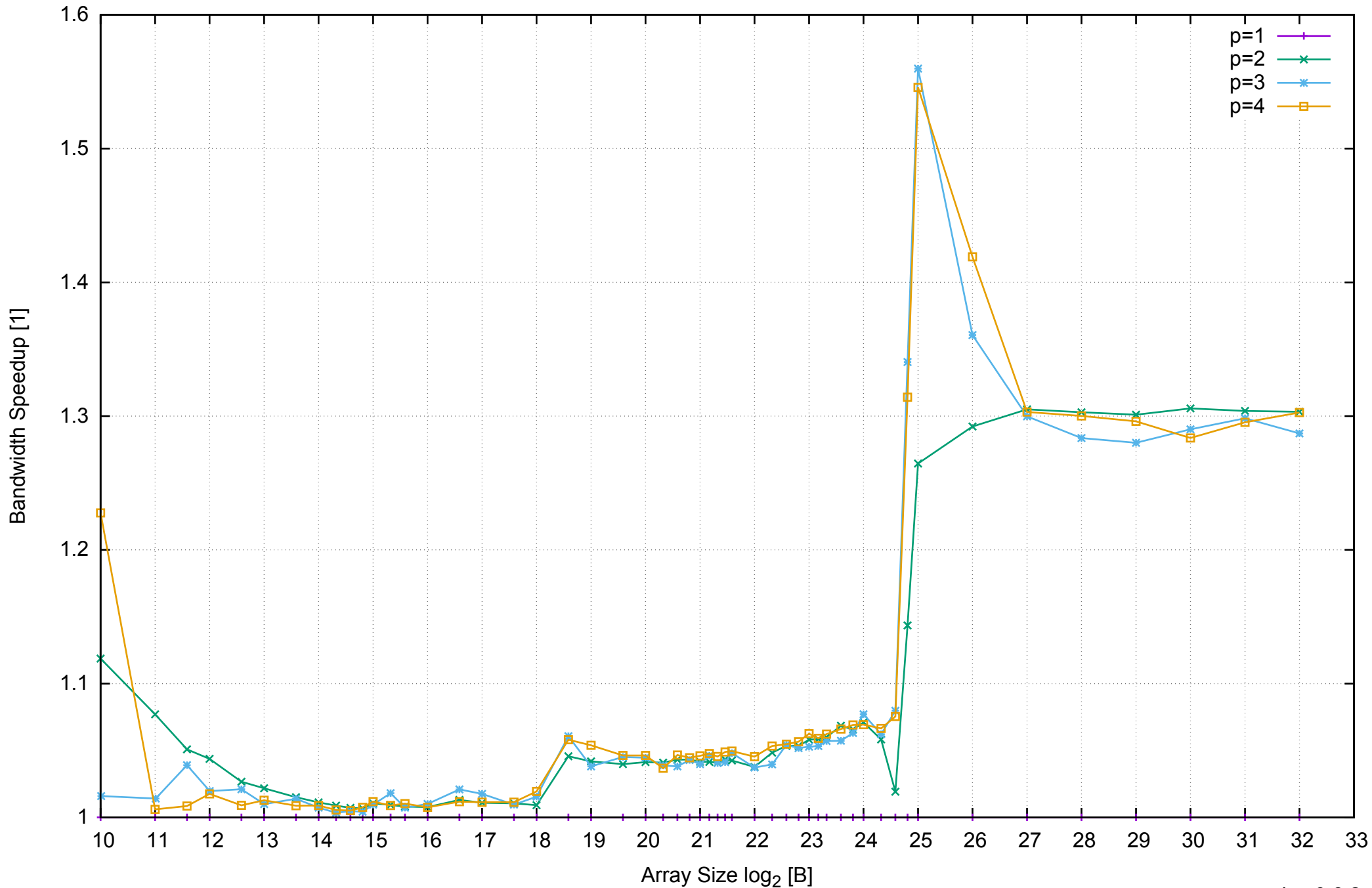
AWS m4.large - Intel Xeon E5-2676 v3, 2.40 GHz 8GB - Parallel Memory Bandwidth - ScanRead64IndexSimpleLoop

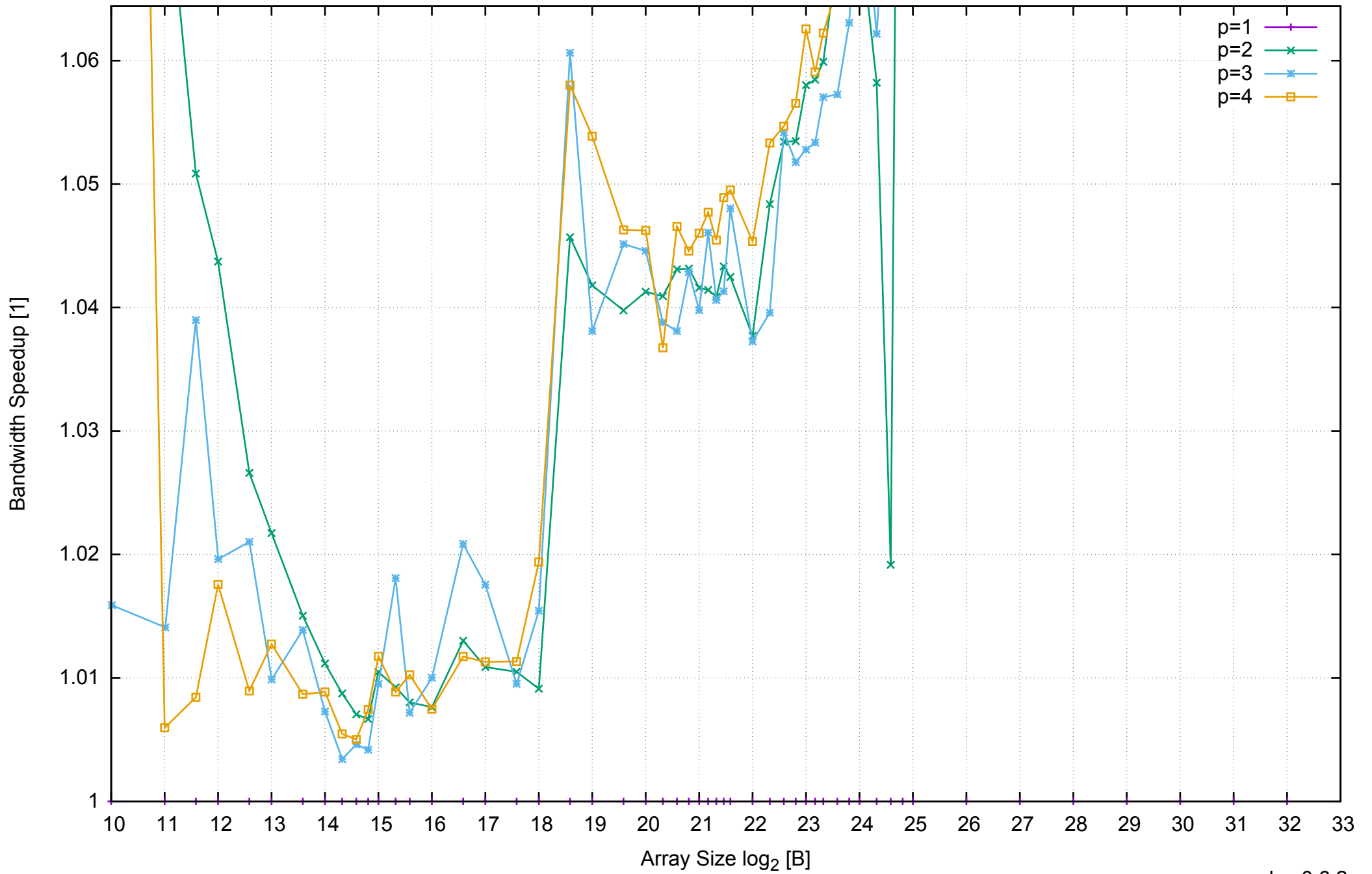


AWS m4.large - Intel Xeon E5-2676 v3, 2.40 GHz 8GB - Parallel Memory Access Time - ScanRead64IndexSimpleLoop



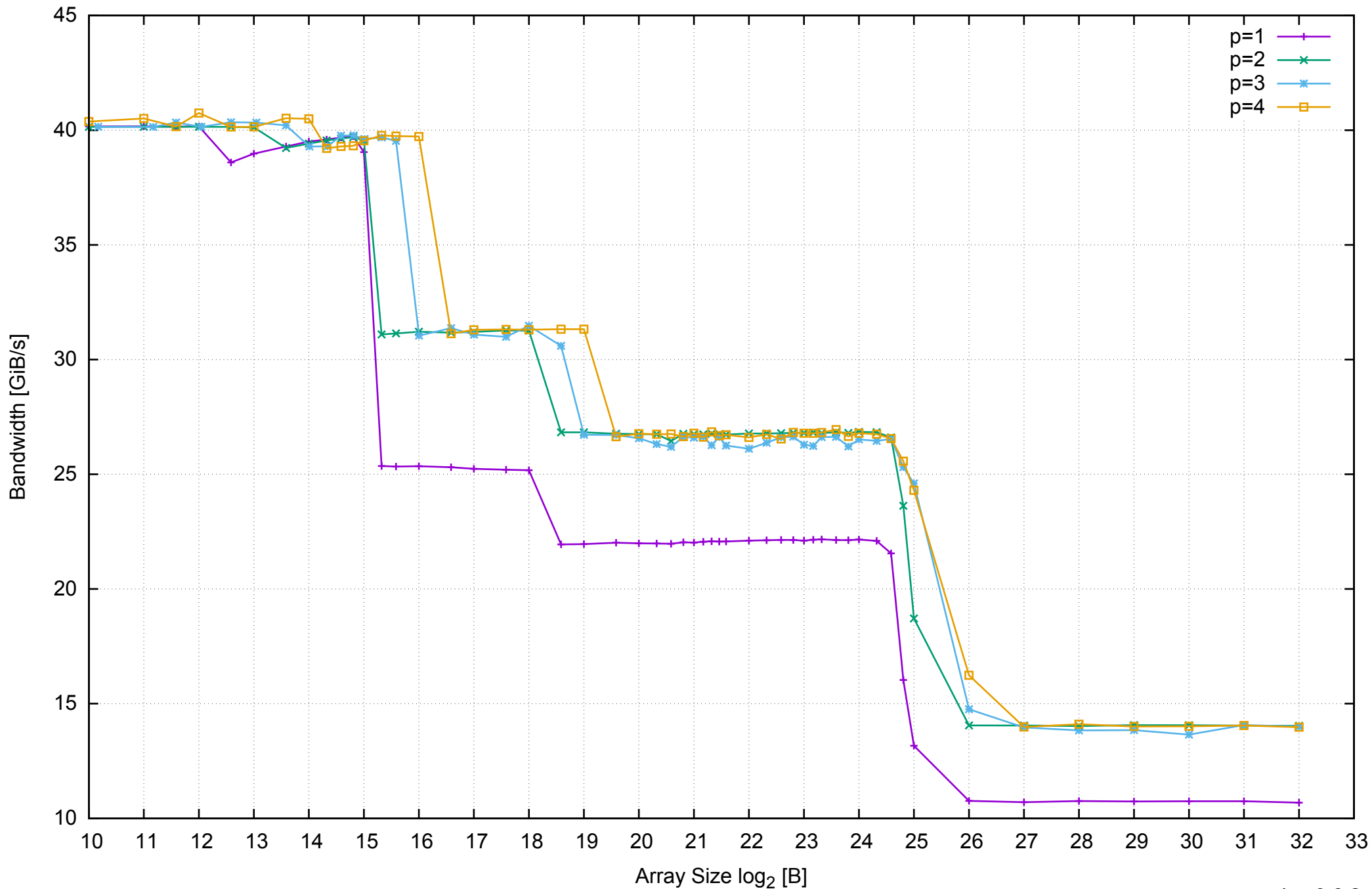
AWS m4.large - Intel Xeon E5-2676 v3, 2.40 GHz 8GB - Speedup of Parallel Memory Bandwidth - ScanRead64IndexSimpleLoop



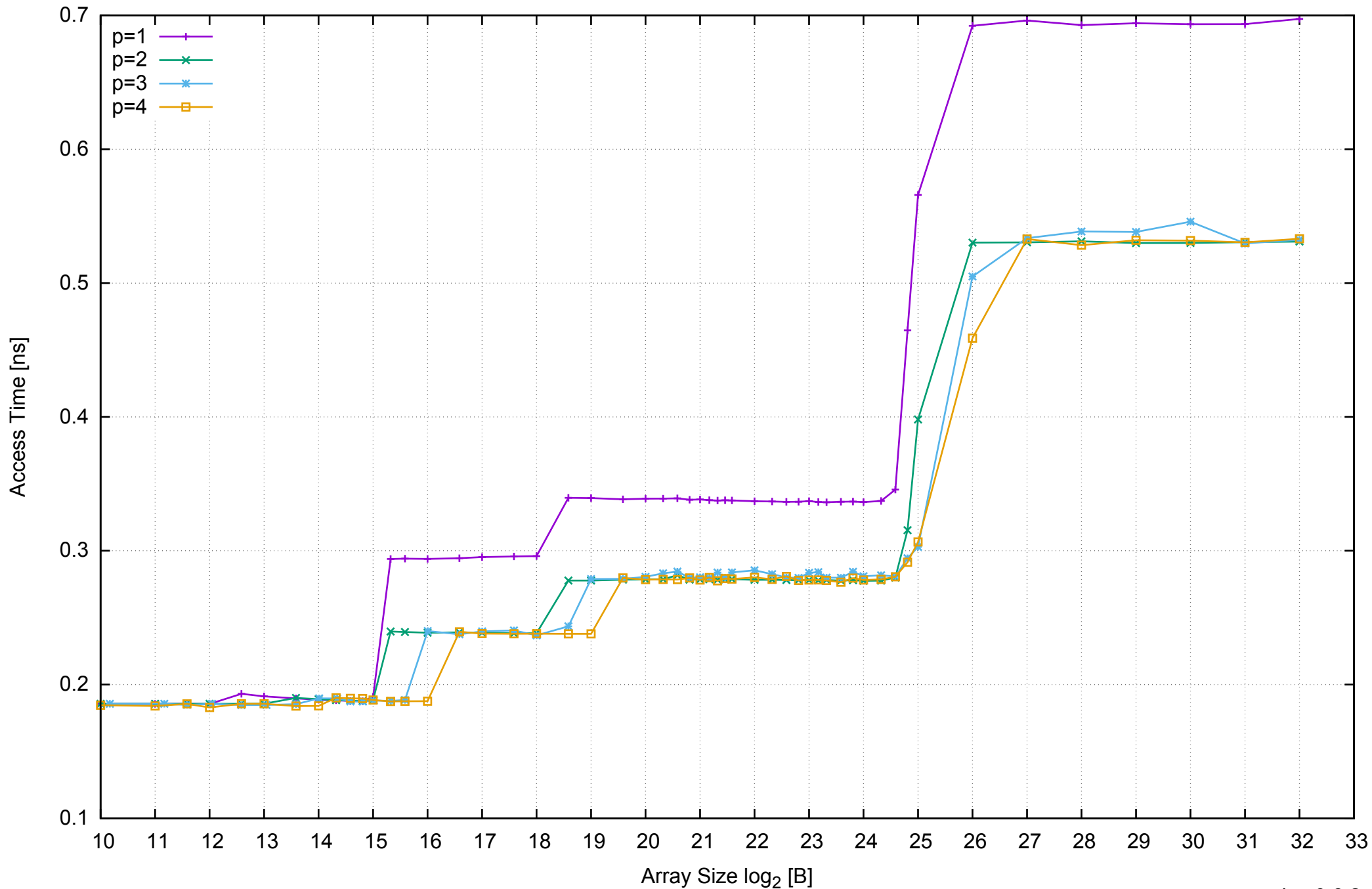




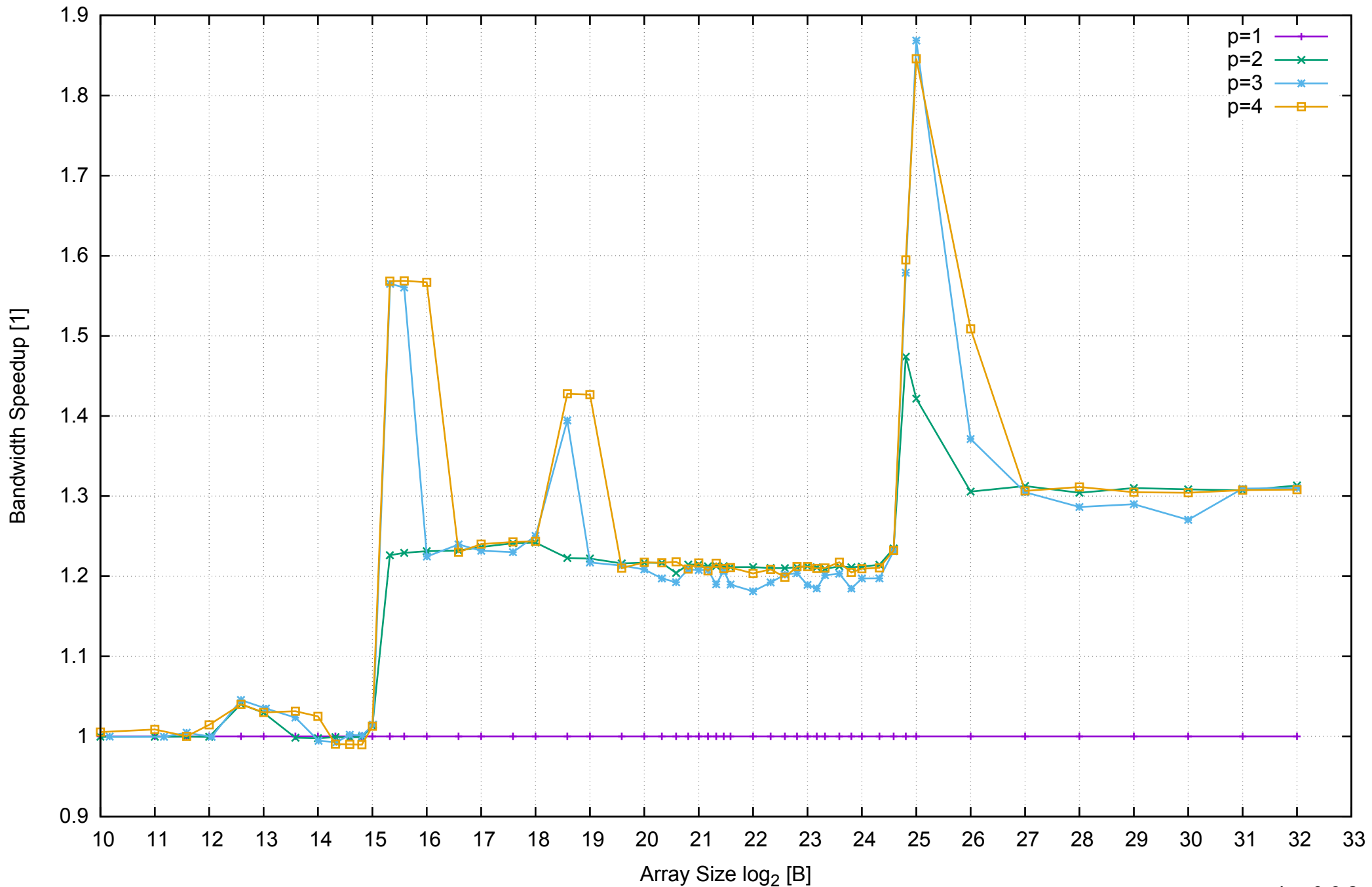
AWS m4.large - Intel Xeon E5-2676 v3, 2.40 GHz 8GB - Parallel Memory Bandwidth - ScanRead64IndexUnrollLoop

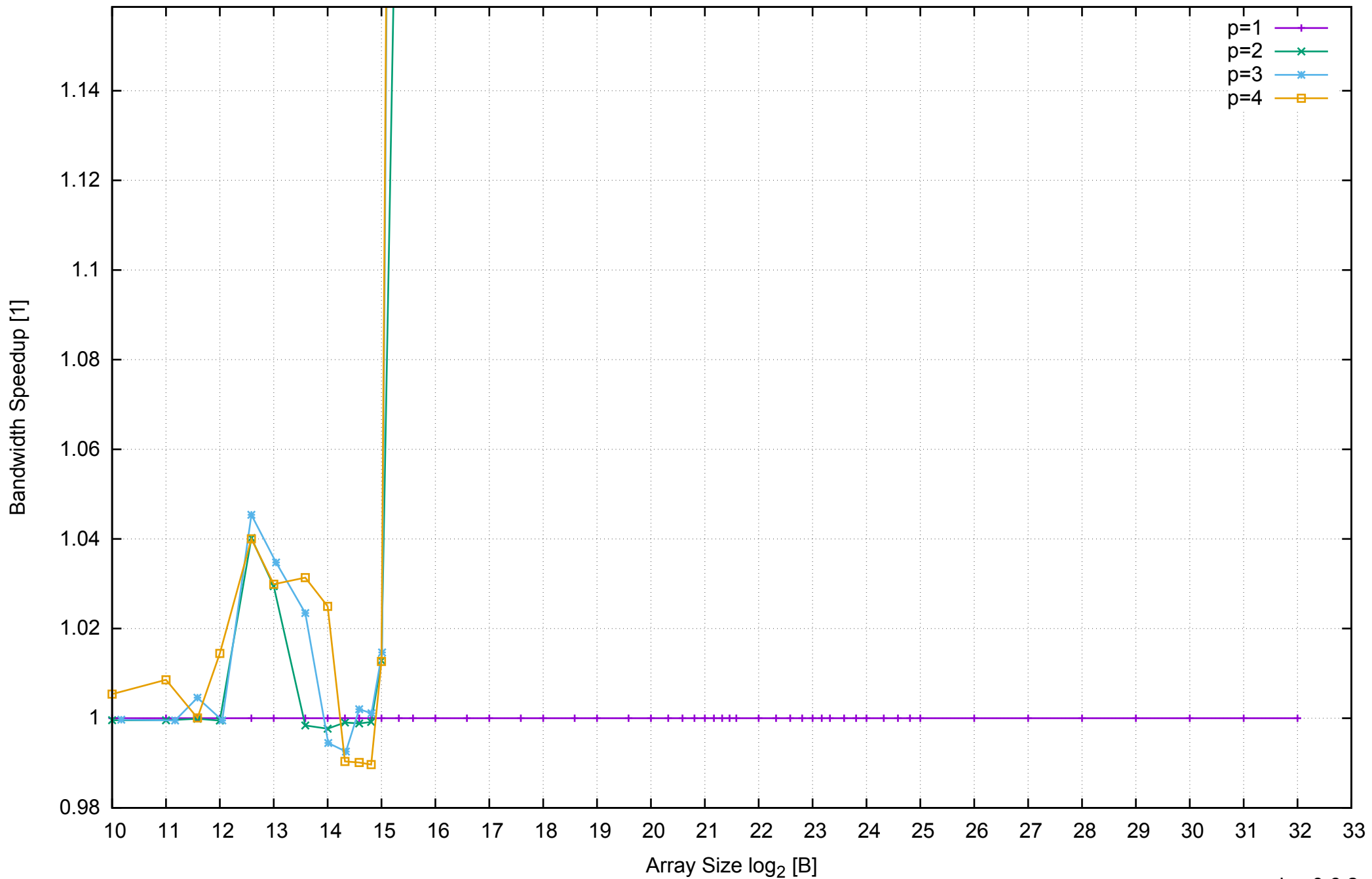


AWS m4.large - Intel Xeon E5-2676 v3, 2.40 GHz 8GB - Parallel Memory Access Time - ScanRead64IndexUnrollLoop

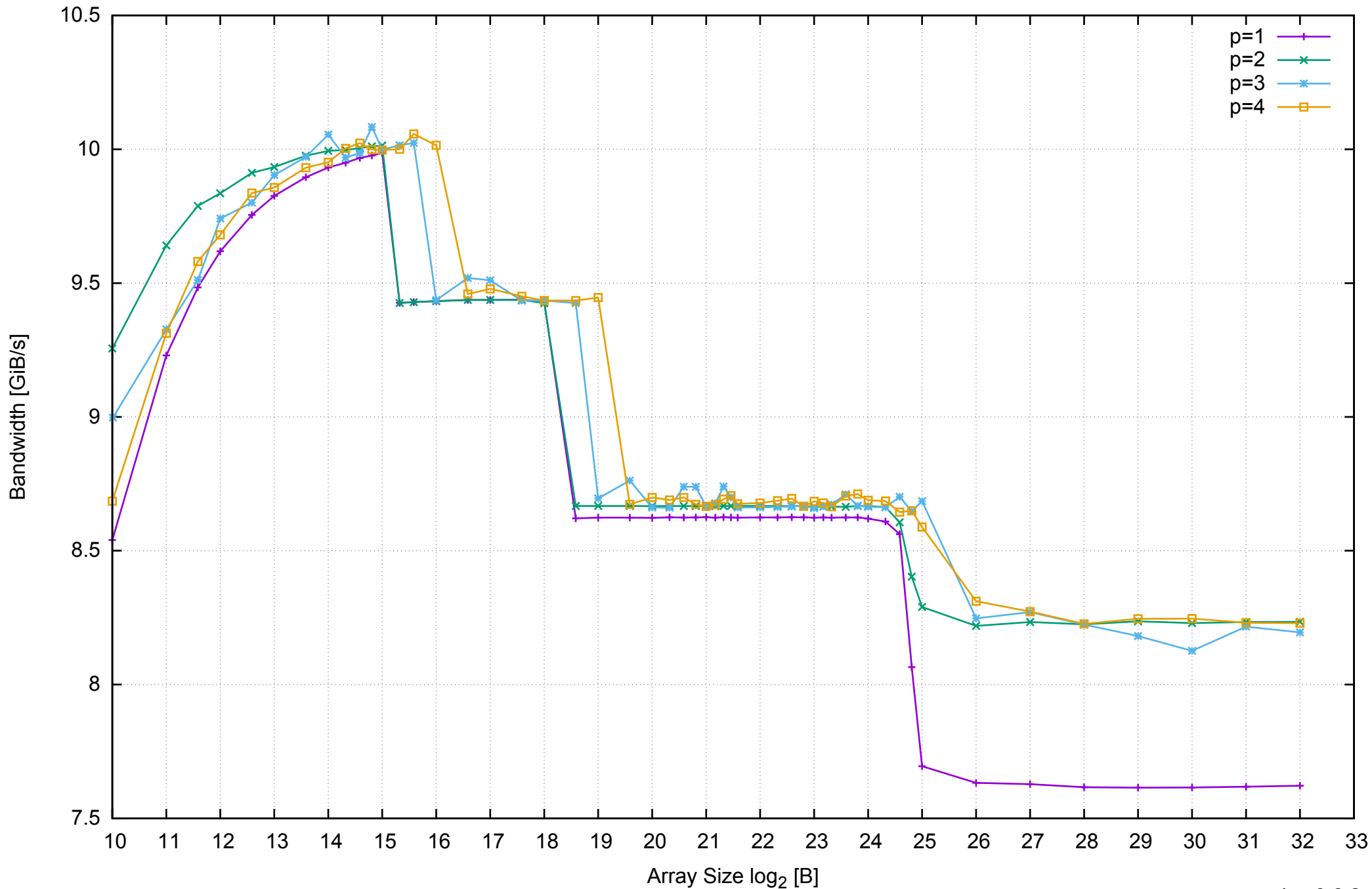


AWS m4.large - Intel Xeon E5-2676 v3, 2.40 GHz 8GB - Speedup of Parallel Memory Bandwidth - ScanRead64IndexUnrollLoop

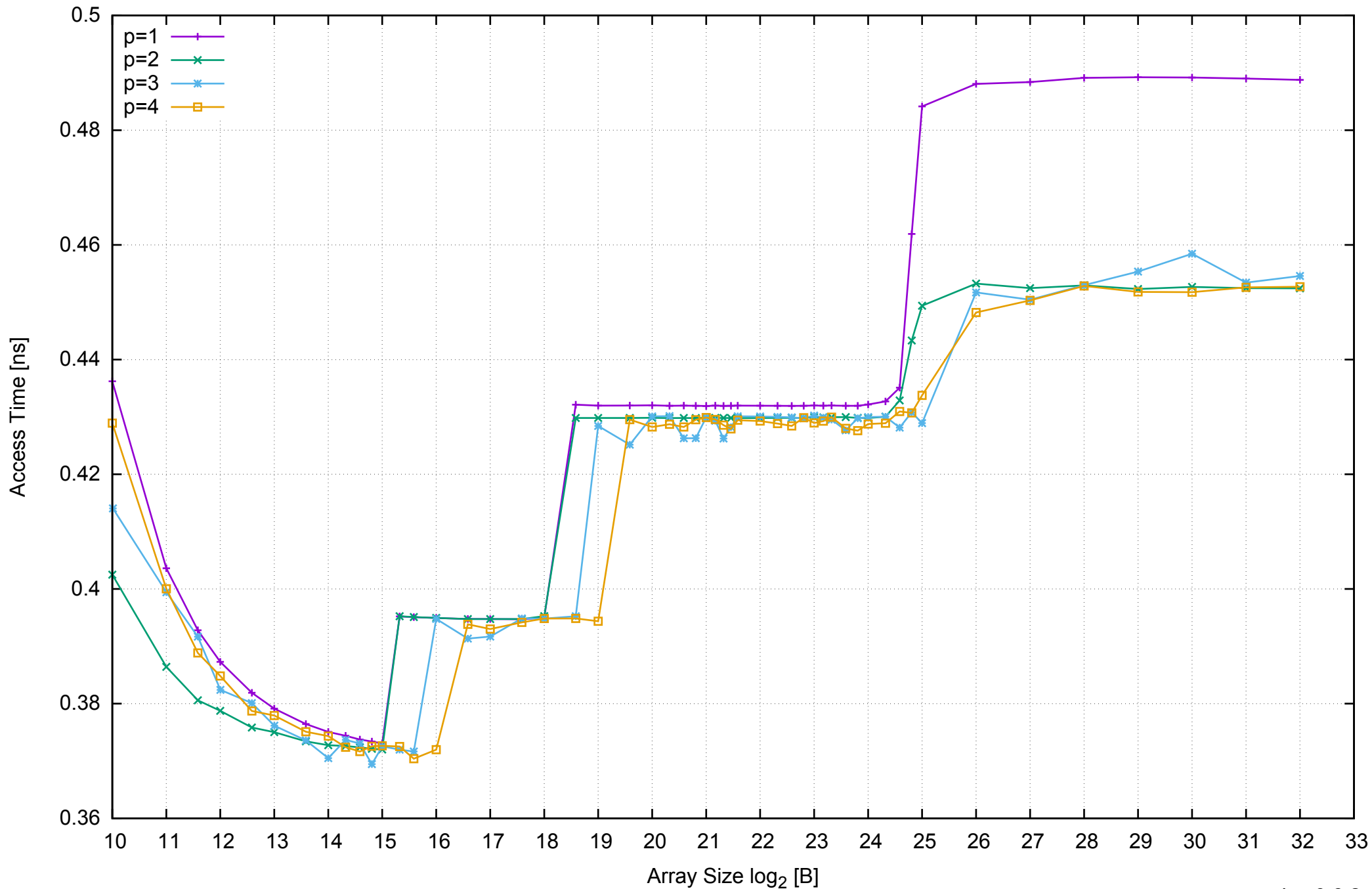




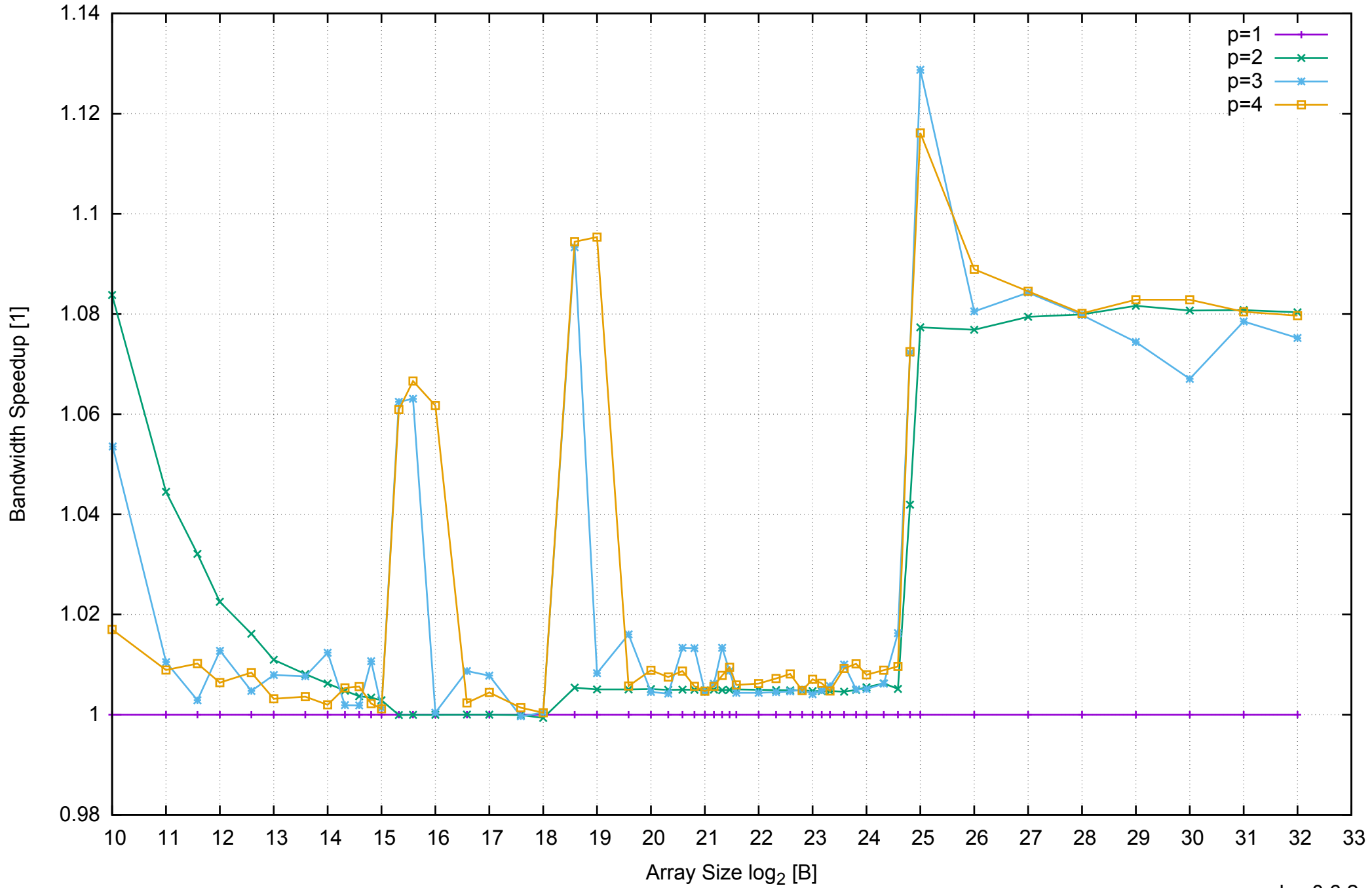
AWS m4.large - Intel Xeon E5-2676 v3, 2.40 GHz 8GB - Parallel Memory Bandwidth - ScanWrite32PtrSimpleLoop



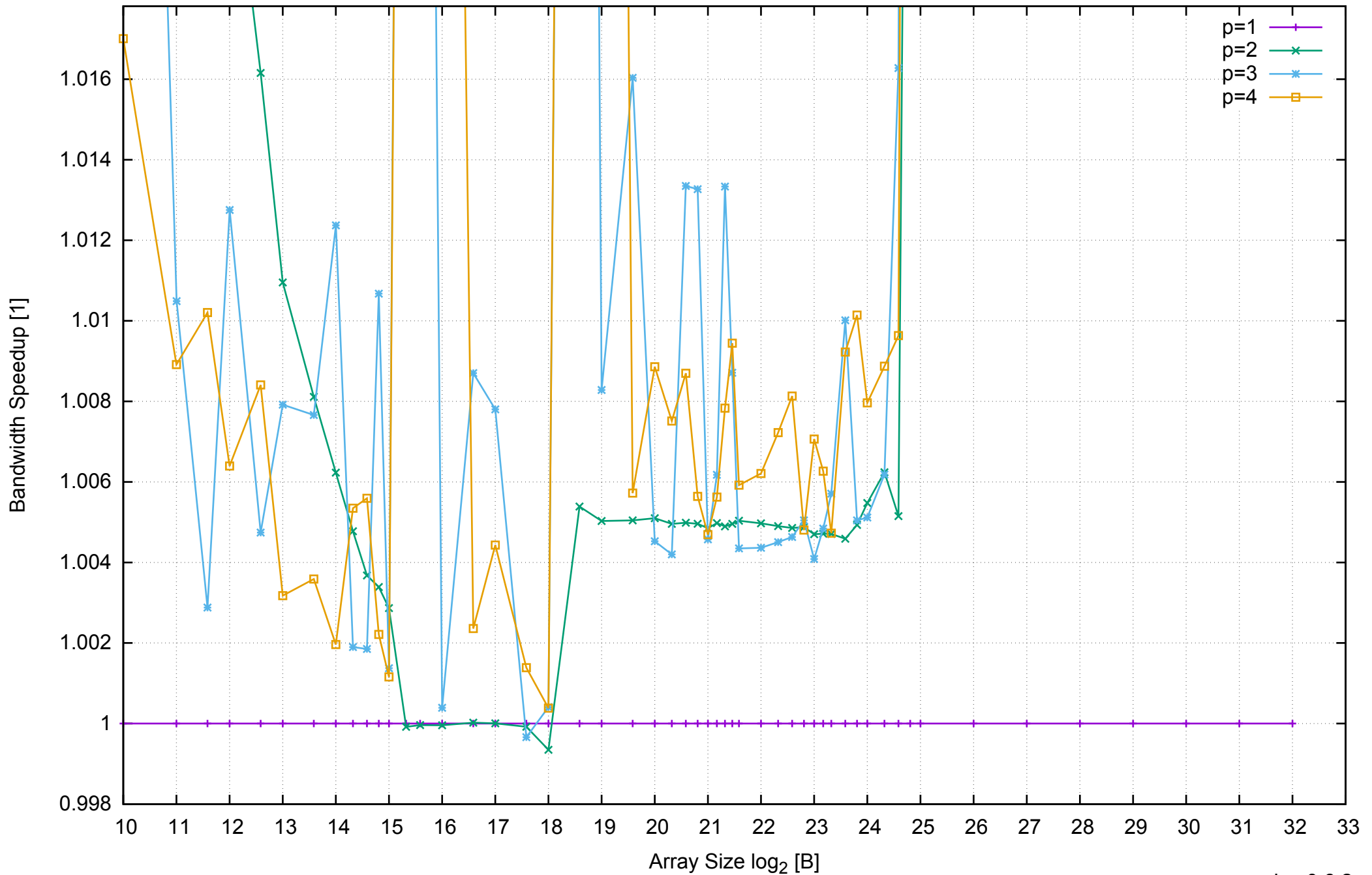
AWS m4.large - Intel Xeon E5-2676 v3, 2.40 GHz 8GB - Parallel Memory Access Time - ScanWrite32PtrSimpleLoop



AWS m4.large - Intel Xeon E5-2676 v3, 2.40 GHz 8GB - Speedup of Parallel Memory Bandwidth - ScanWrite32PtrSimpleLoop

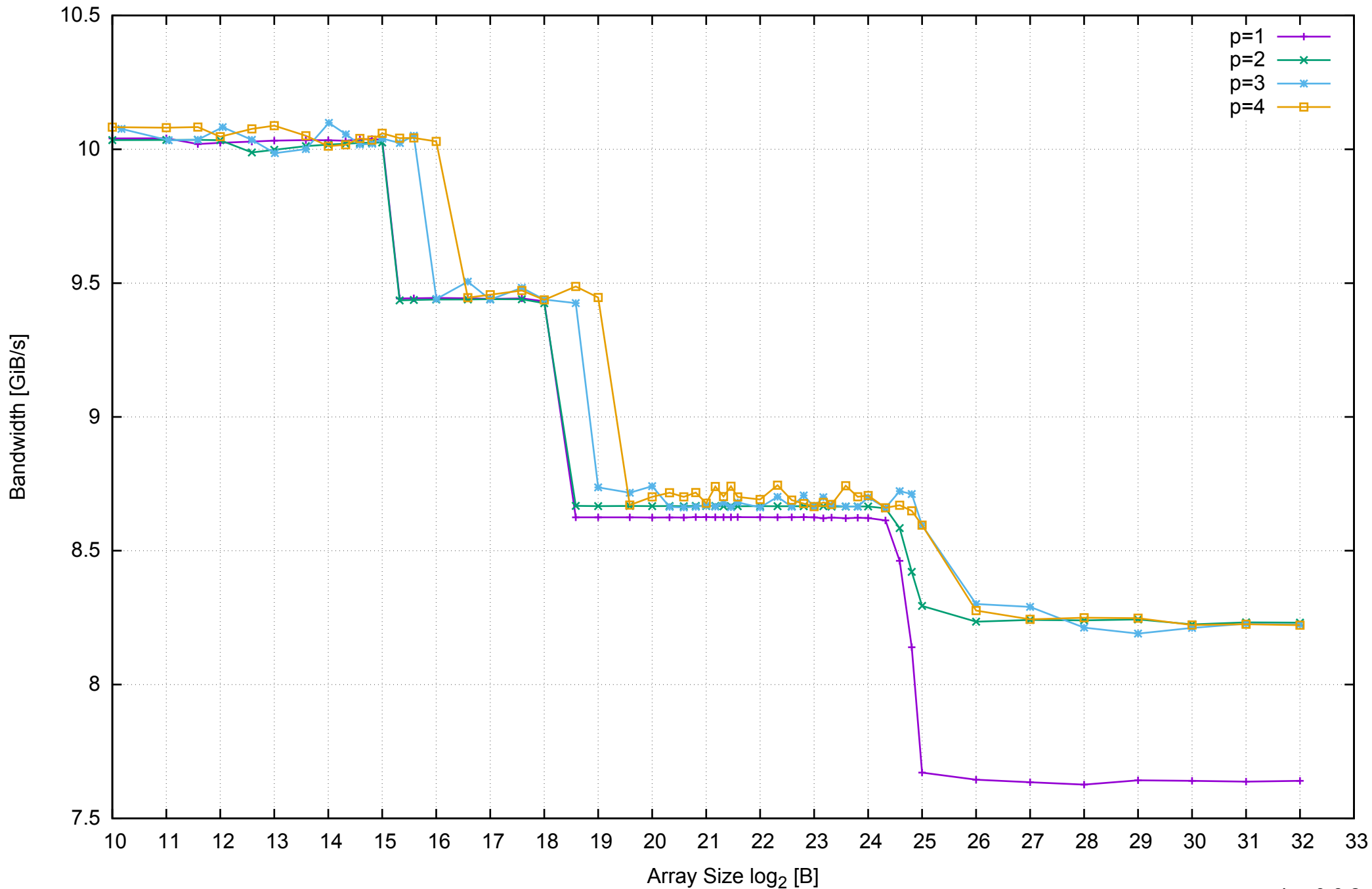


AWS m4.large - Intel Xeon E5-2676 v3, 2.40 GHz 8GB - Speedup of Parallel Memory Bandwidth (enlarged) - ScanWrite32PtrSimpleLoop

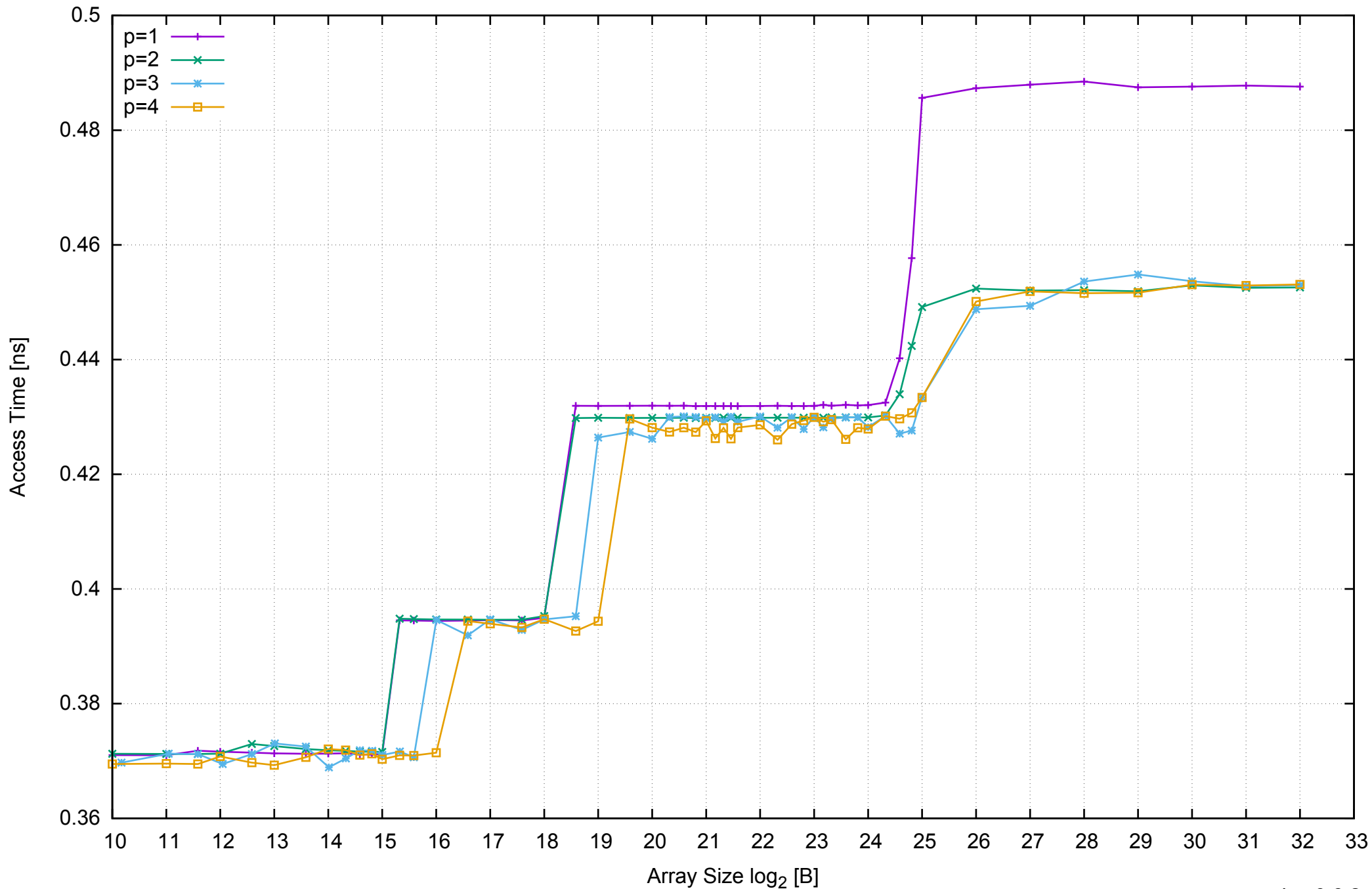




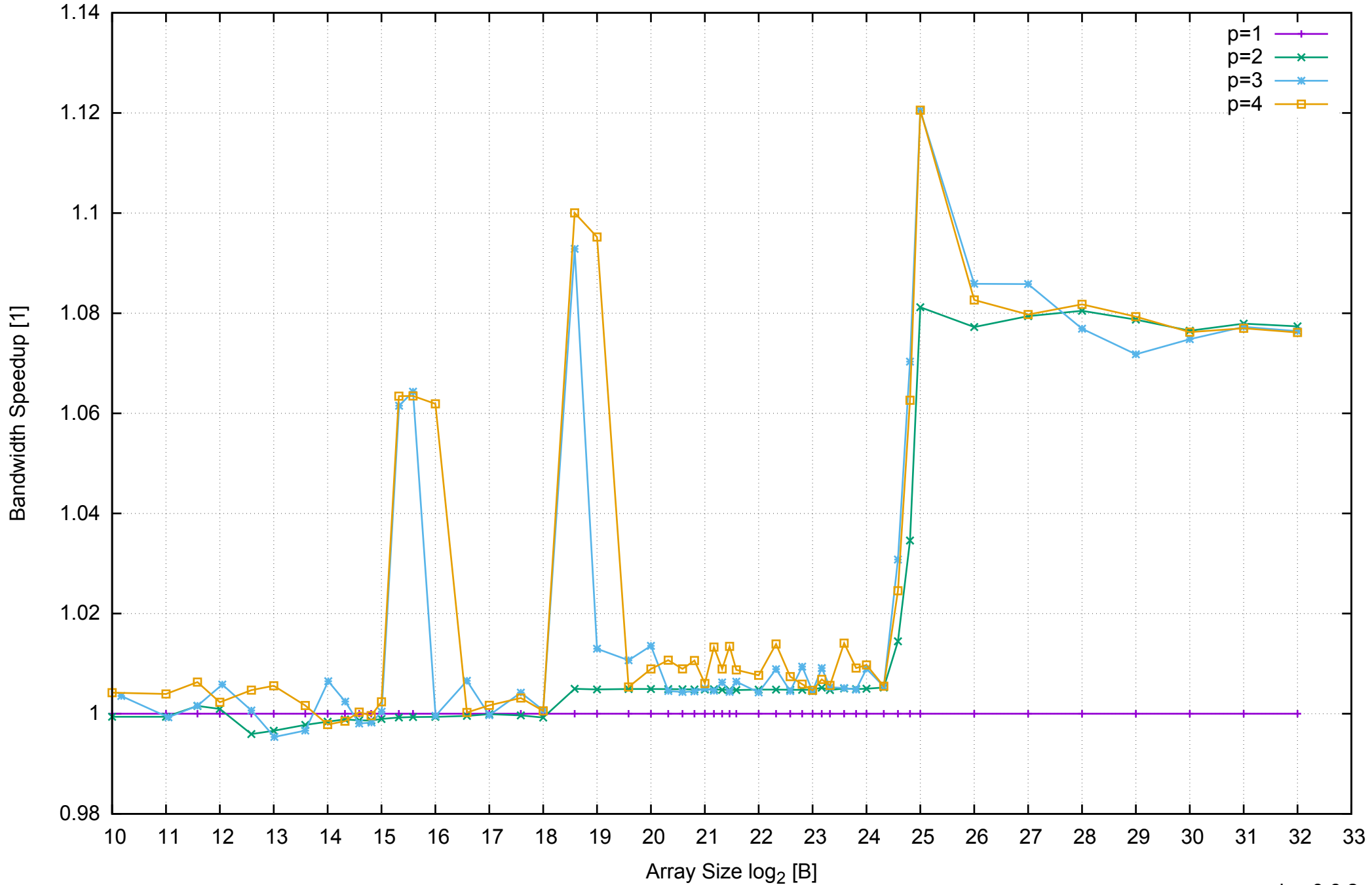
AWS m4.large - Intel Xeon E5-2676 v3, 2.40 GHz 8GB - Parallel Memory Bandwidth - ScanWrite32PtrUnrollLoop

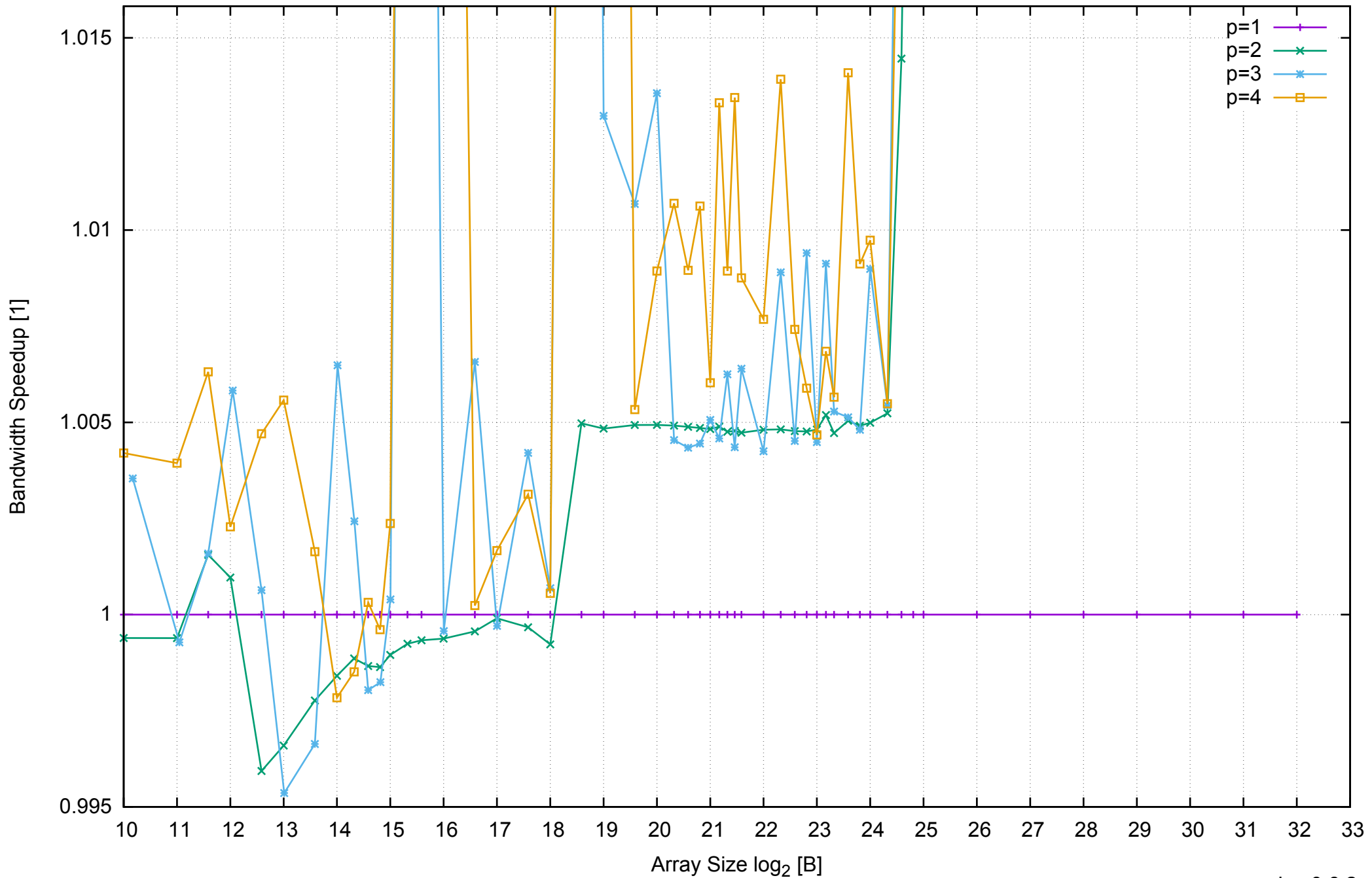


AWS m4.large - Intel Xeon E5-2676 v3, 2.40 GHz 8GB - Parallel Memory Access Time - ScanWrite32PtrUnrollLoop

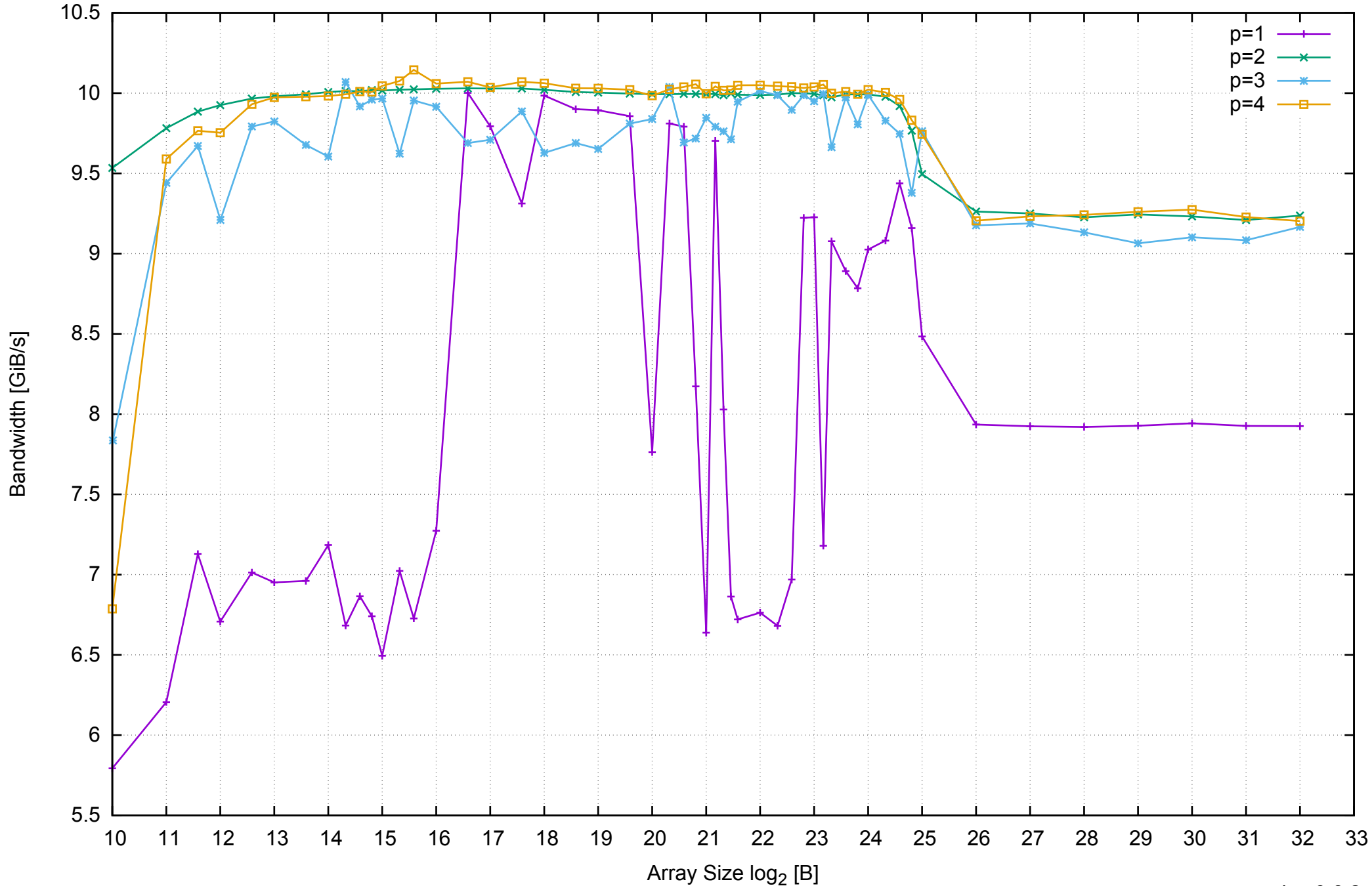


AWS m4.large - Intel Xeon E5-2676 v3, 2.40 GHz 8GB - Speedup of Parallel Memory Bandwidth - ScanWrite32PtrUnrollLoop

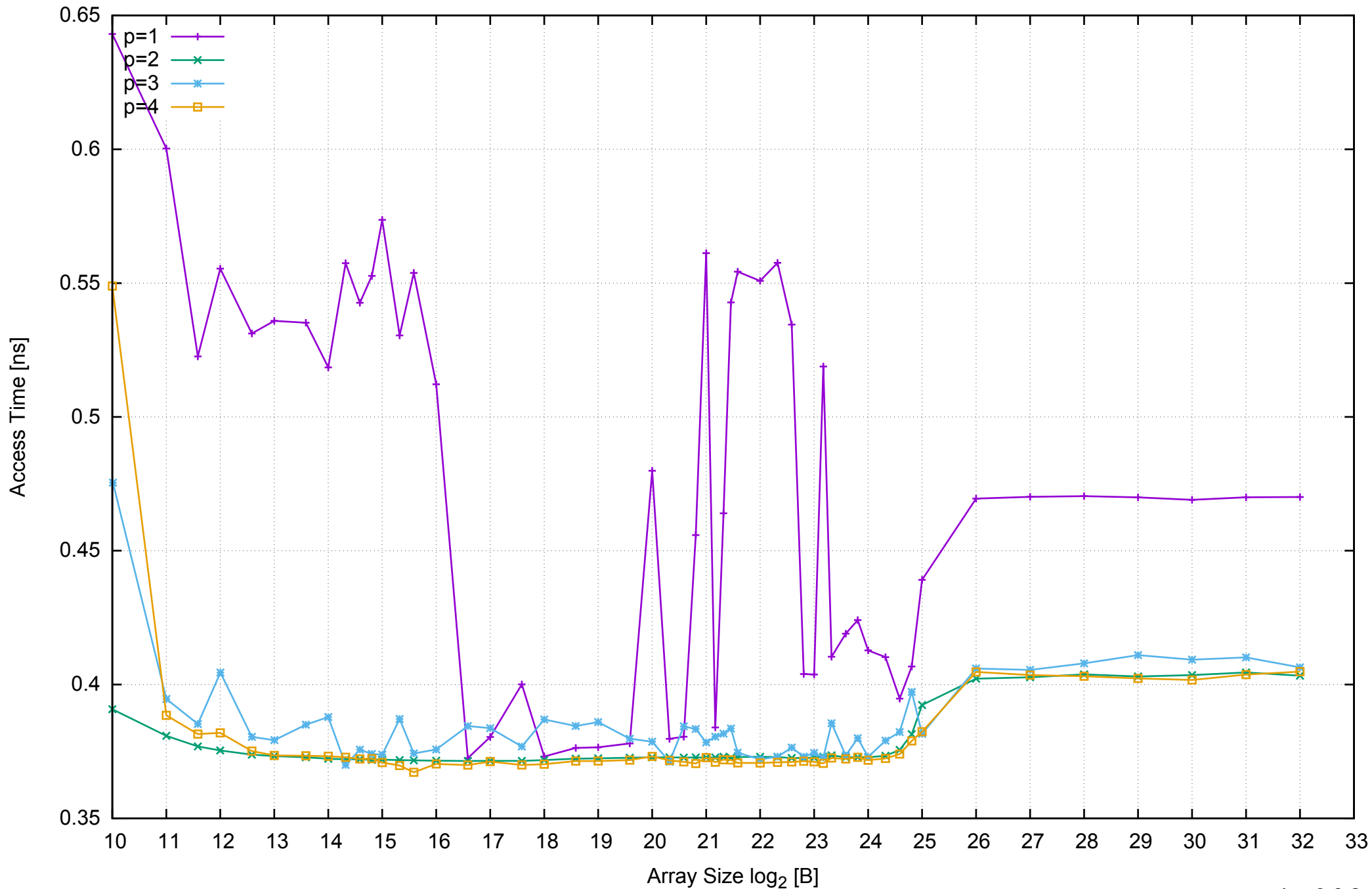




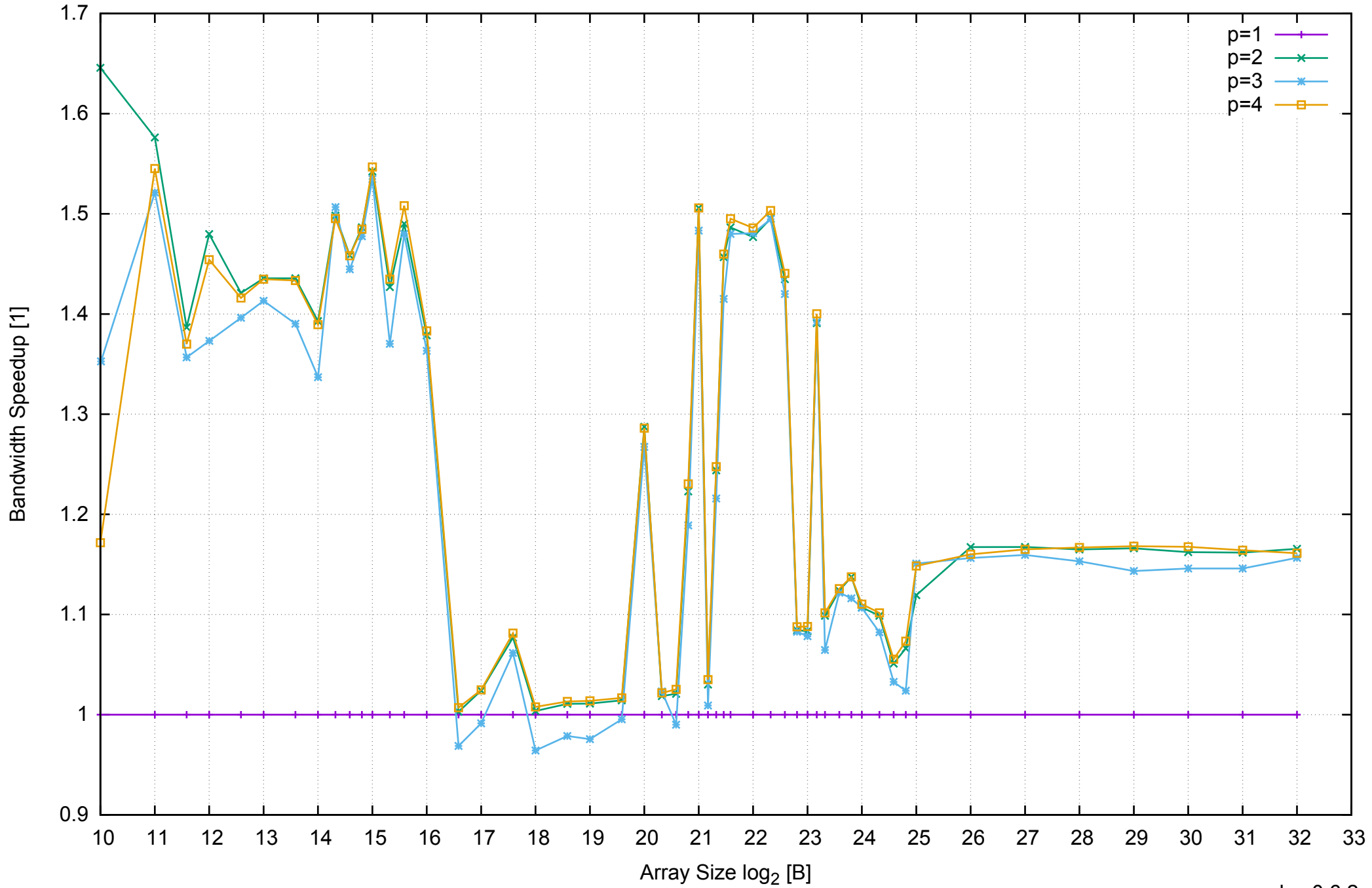
AWS m4.large - Intel Xeon E5-2676 v3, 2.40 GHz 8GB - Parallel Memory Bandwidth - ScanRead32PtrSimpleLoop

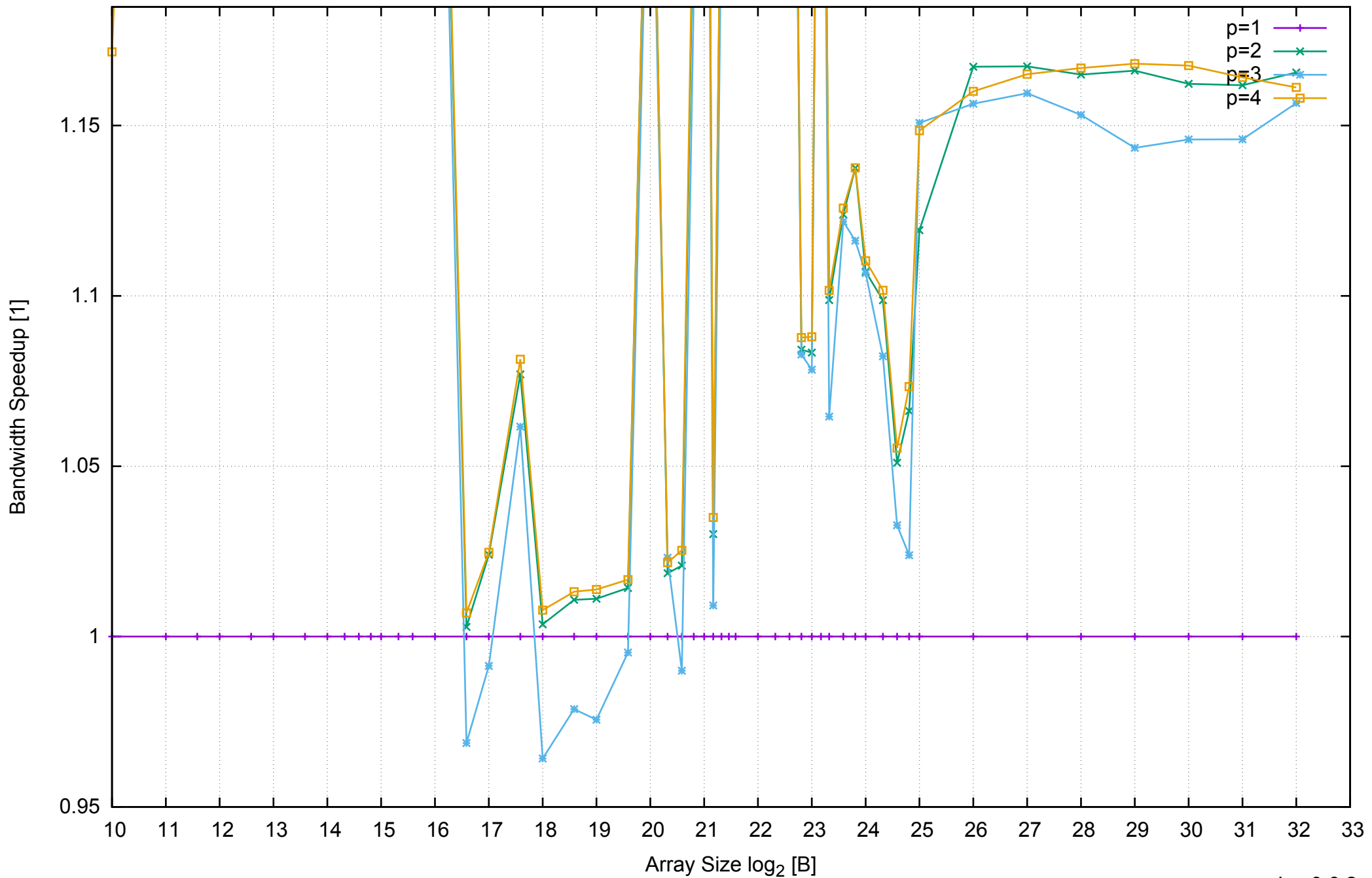


AWS m4.large - Intel Xeon E5-2676 v3, 2.40 GHz 8GB - Parallel Memory Access Time - ScanRead32PtrSimpleLoop



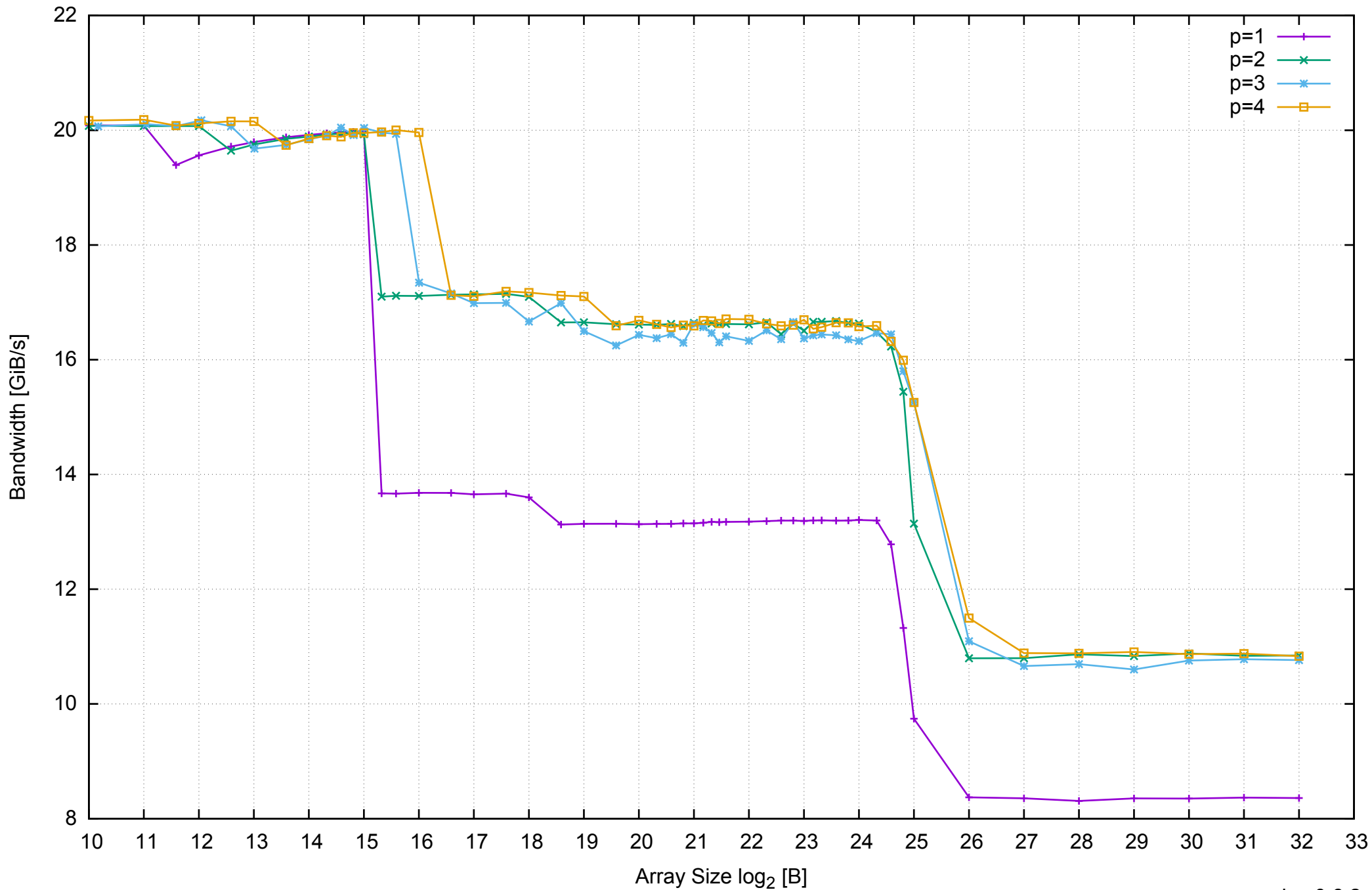
AWS m4.large - Intel Xeon E5-2676 v3, 2.40 GHz 8GB - Speedup of Parallel Memory Bandwidth - ScanRead32PtrSimpleLoop



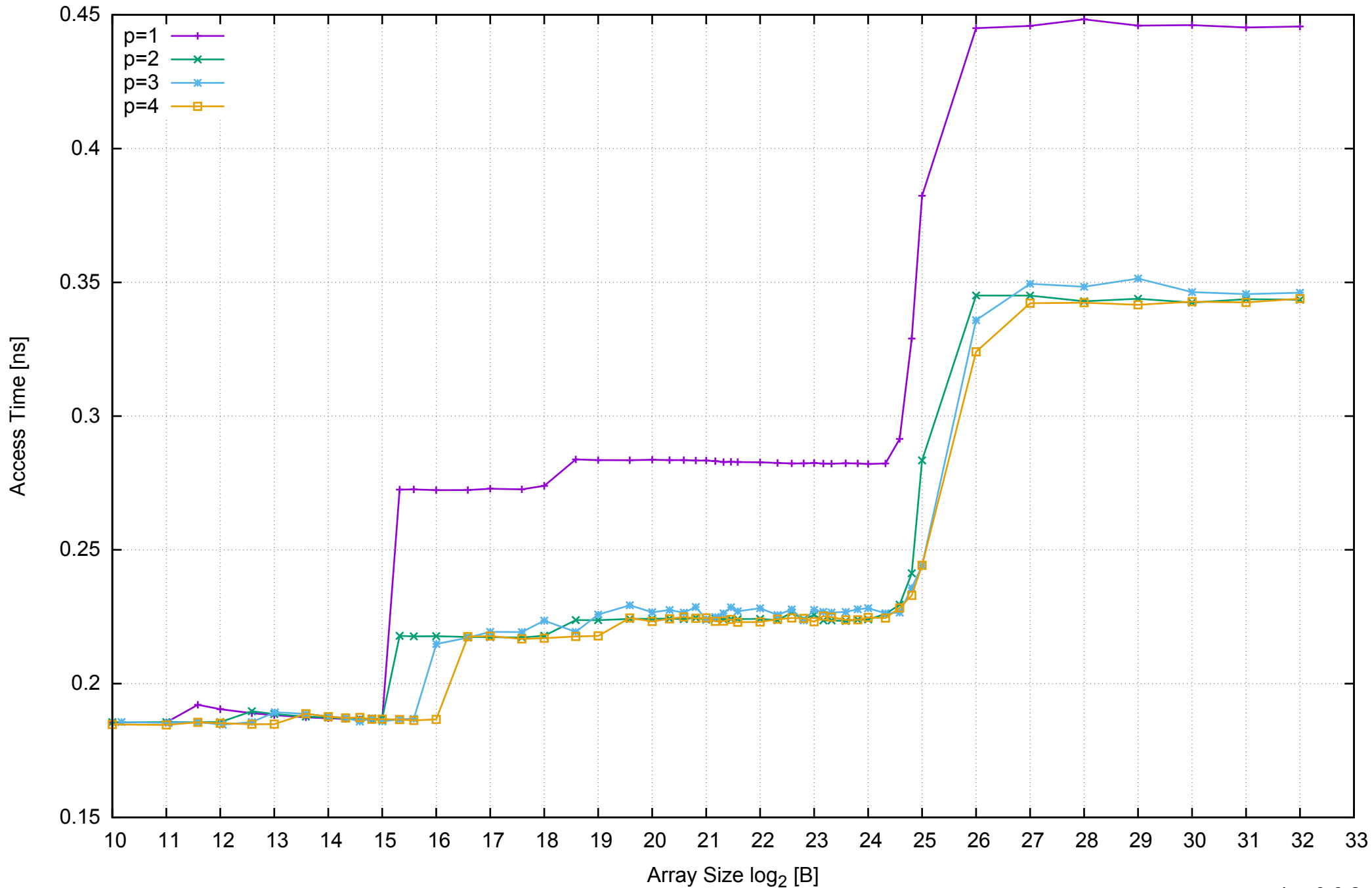




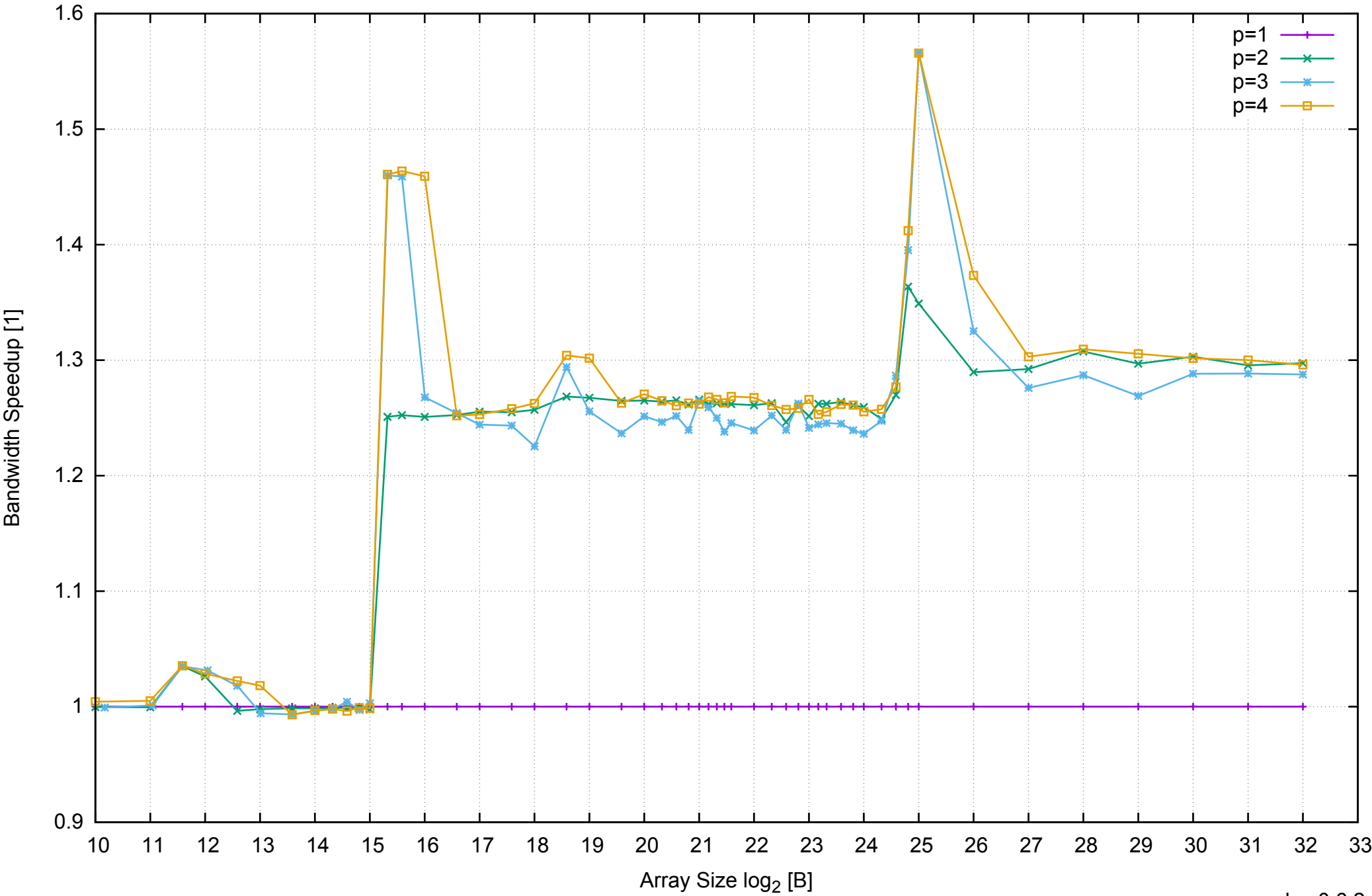
AWS m4.large - Intel Xeon E5-2676 v3, 2.40 GHz 8GB - Parallel Memory Bandwidth - ScanRead32PtrUnrollLoop

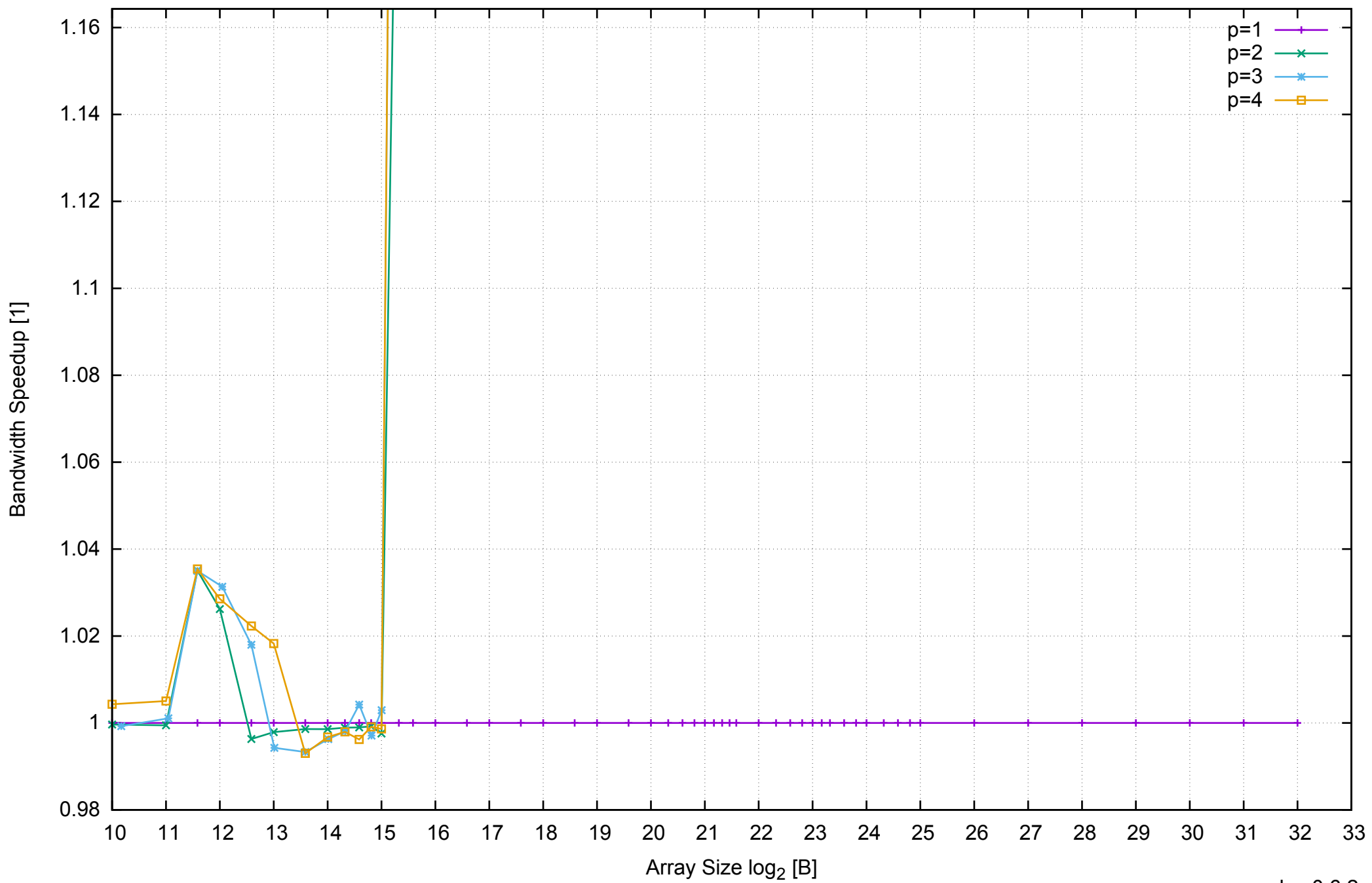


AWS m4.large - Intel Xeon E5-2676 v3, 2.40 GHz 8GB - Parallel Memory Access Time - ScanRead32PtrUnrollLoop

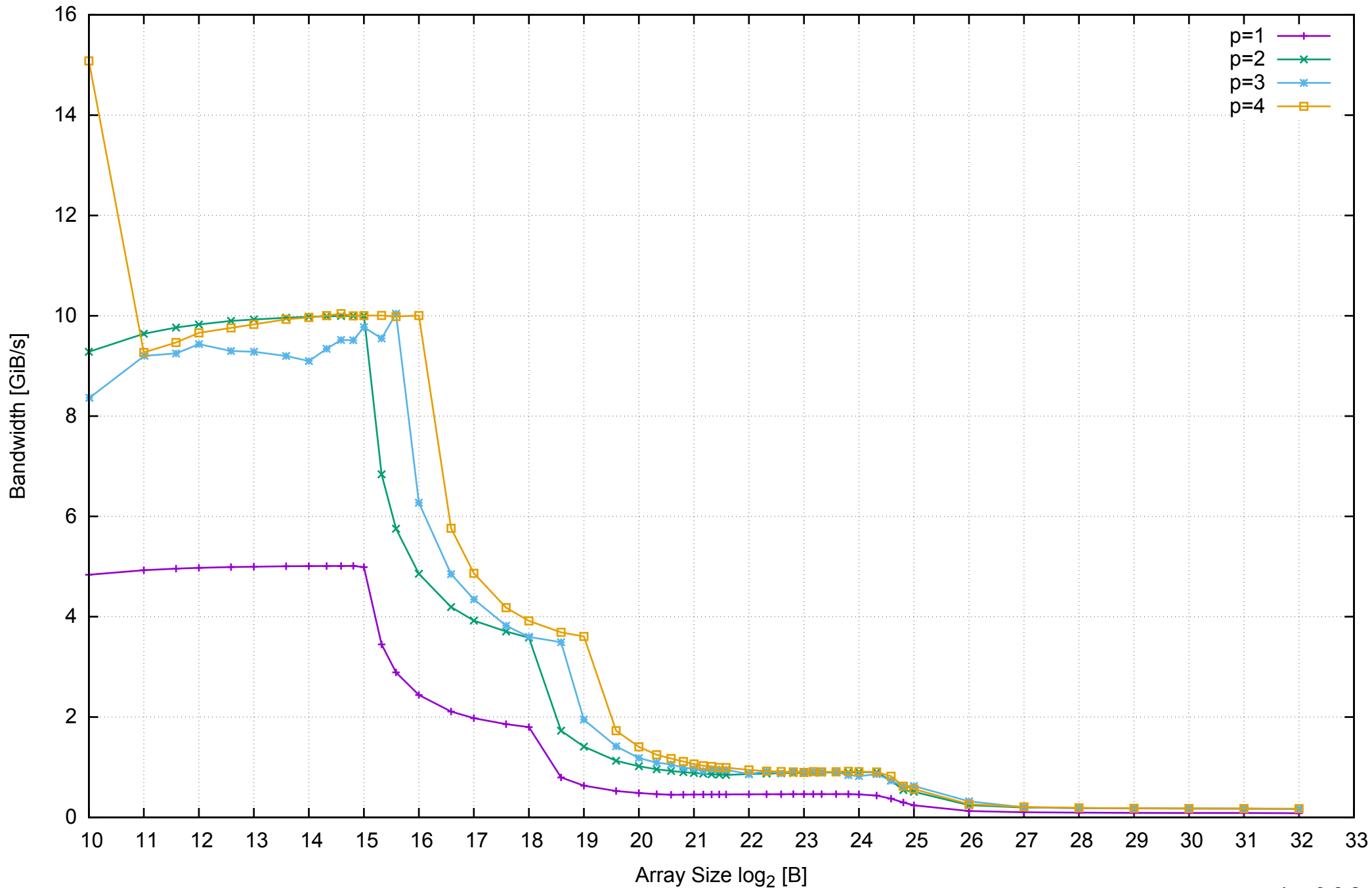


AWS m4.large - Intel Xeon E5-2676 v3, 2.40 GHz 8GB - Speedup of Parallel Memory Bandwidth - ScanRead32PtrUnrollLoop

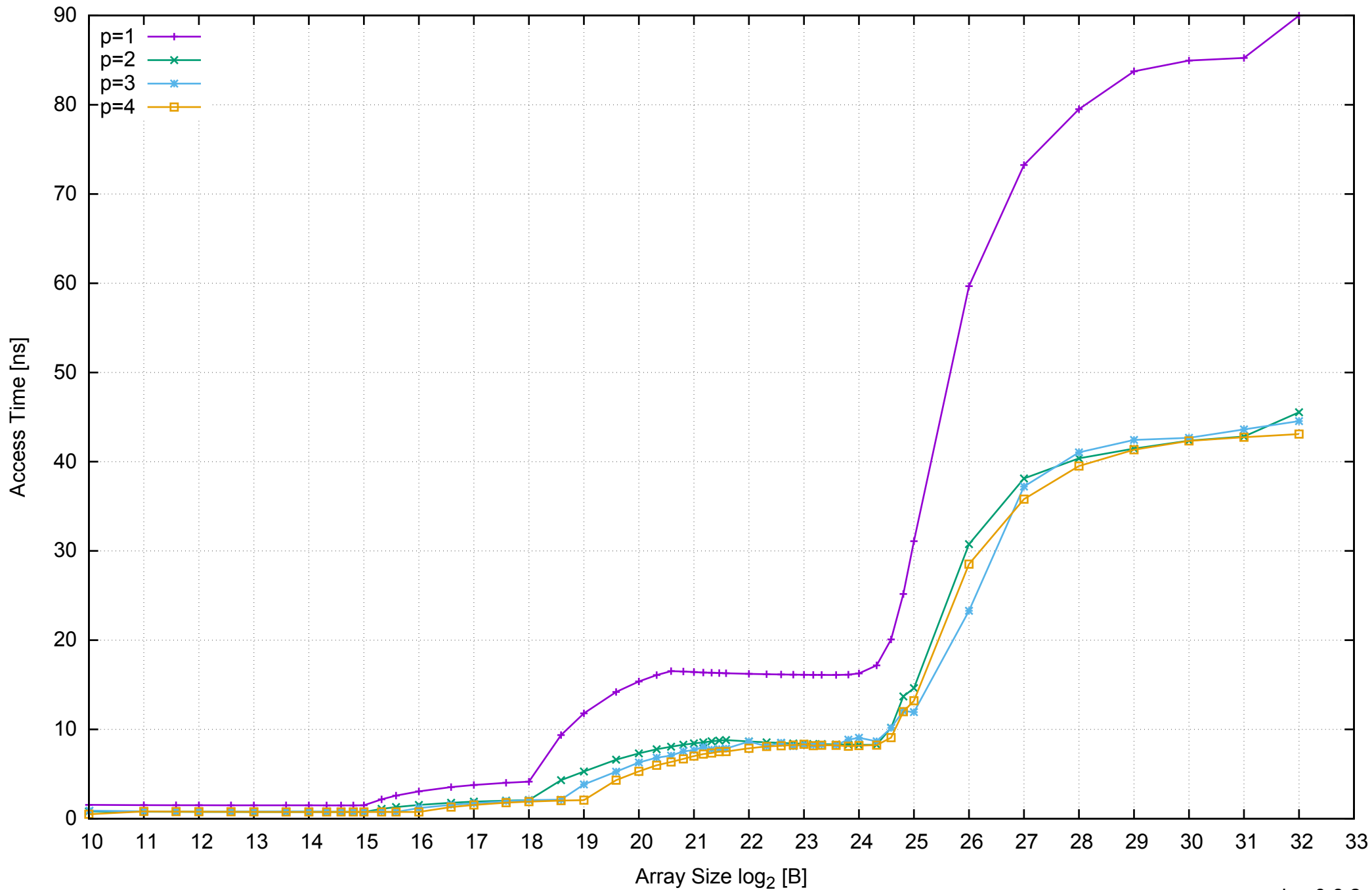




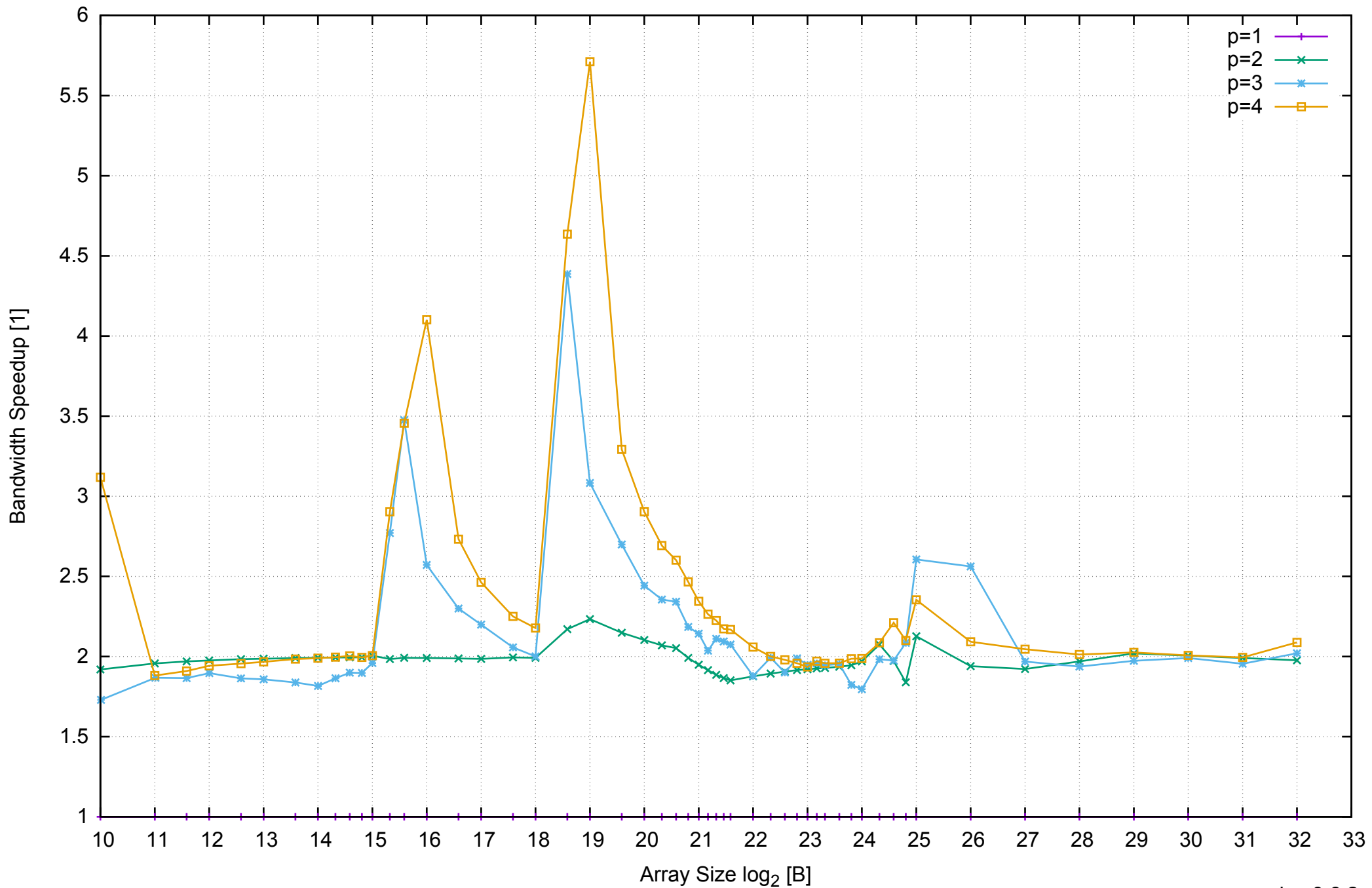
AWS m4.large - Intel Xeon E5-2676 v3, 2.40 GHz 8GB - Parallel Memory Bandwidth - PermRead64SimpleLoop



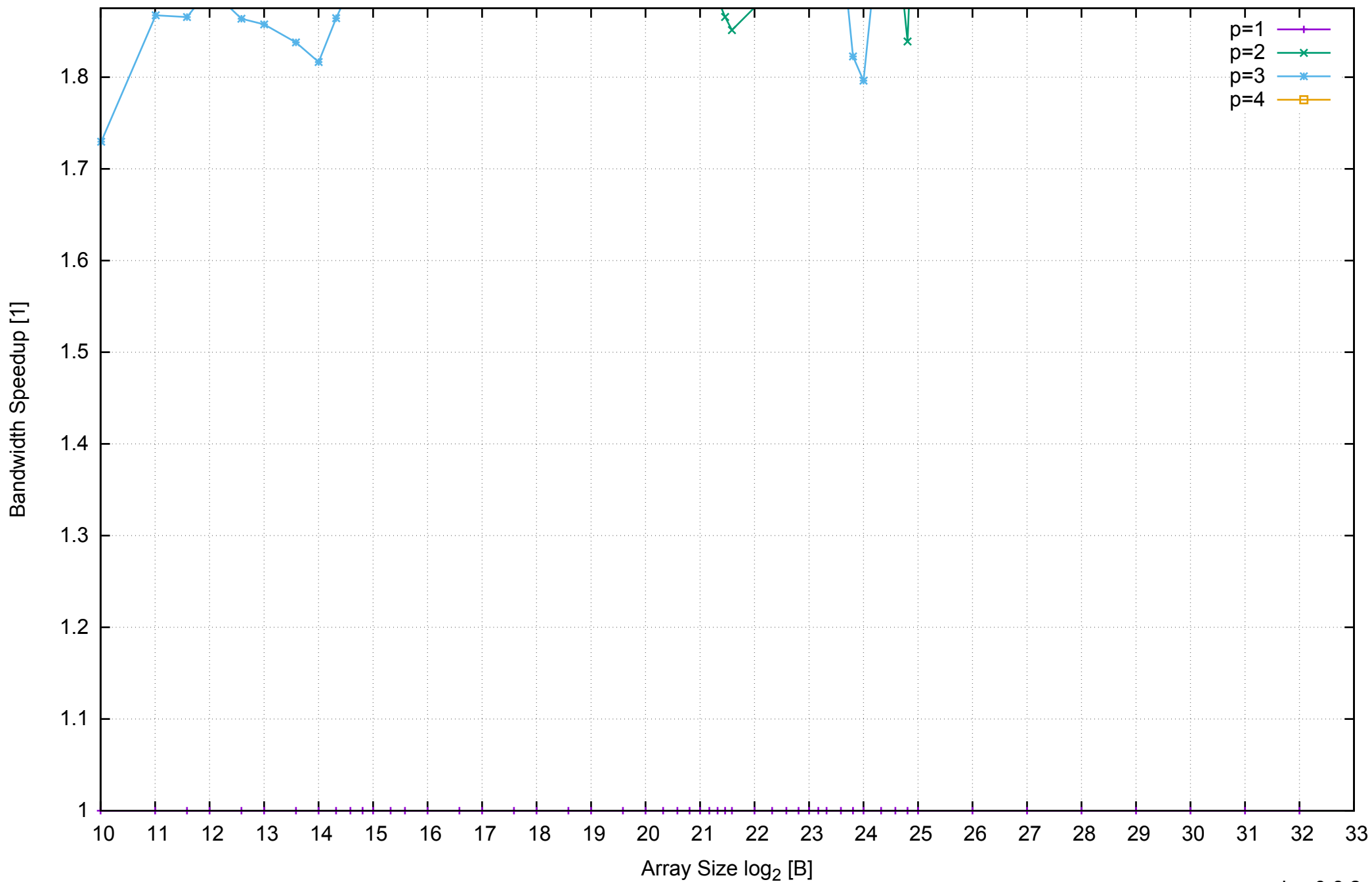
AWS m4.large - Intel Xeon E5-2676 v3, 2.40 GHz 8GB - Parallel Memory Access Time - PermRead64SimpleLoop



AWS m4.large - Intel Xeon E5-2676 v3, 2.40 GHz 8GB - Speedup of Parallel Memory Bandwidth - PermRead64SimpleLoop

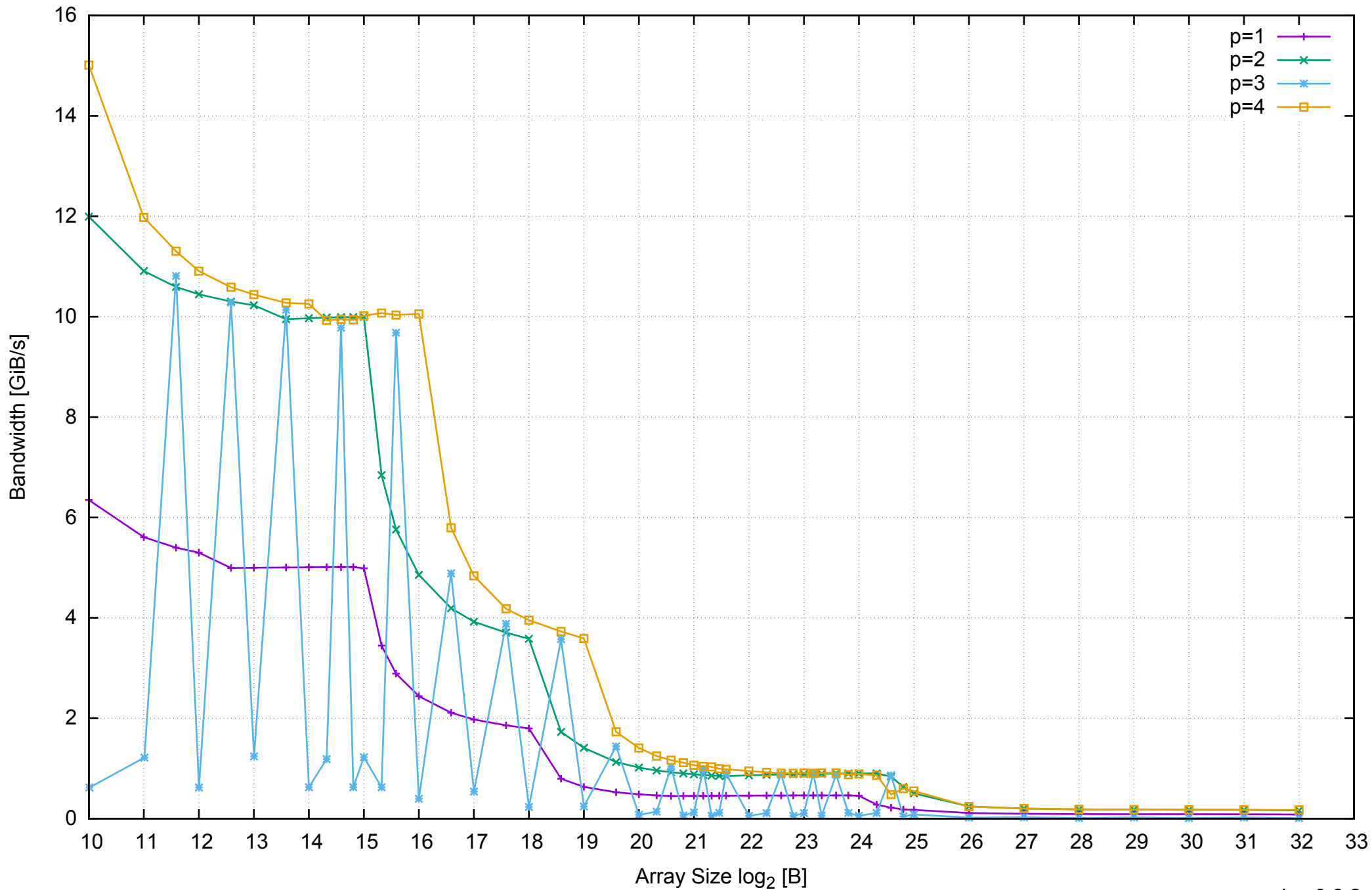


AWS m4.large - Intel Xeon E5-2676 v3, 2.40 GHz 8GB - Speedup of Parallel Memory Bandwidth (enlarged) - PermRead64SimpleLoop

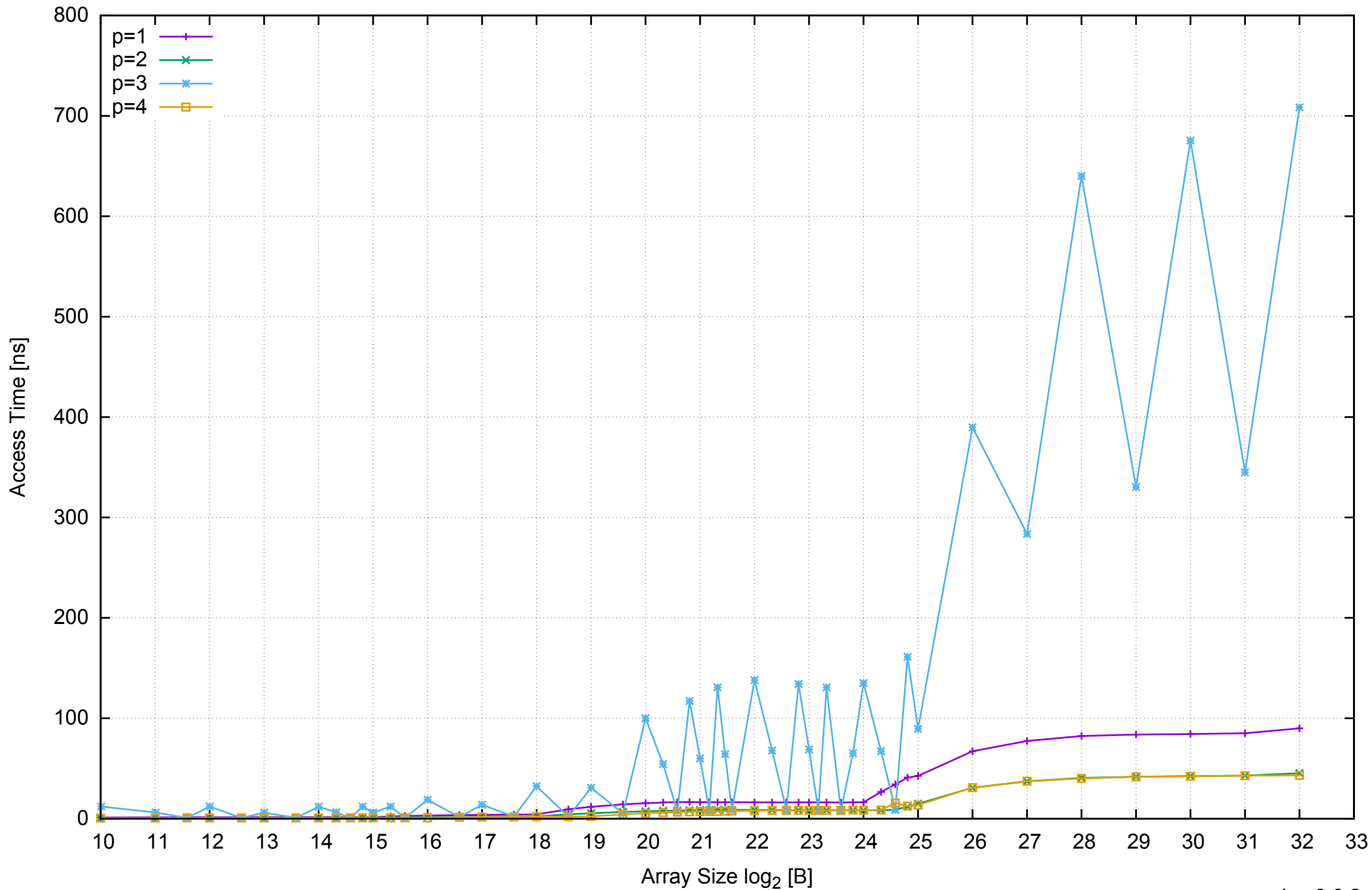




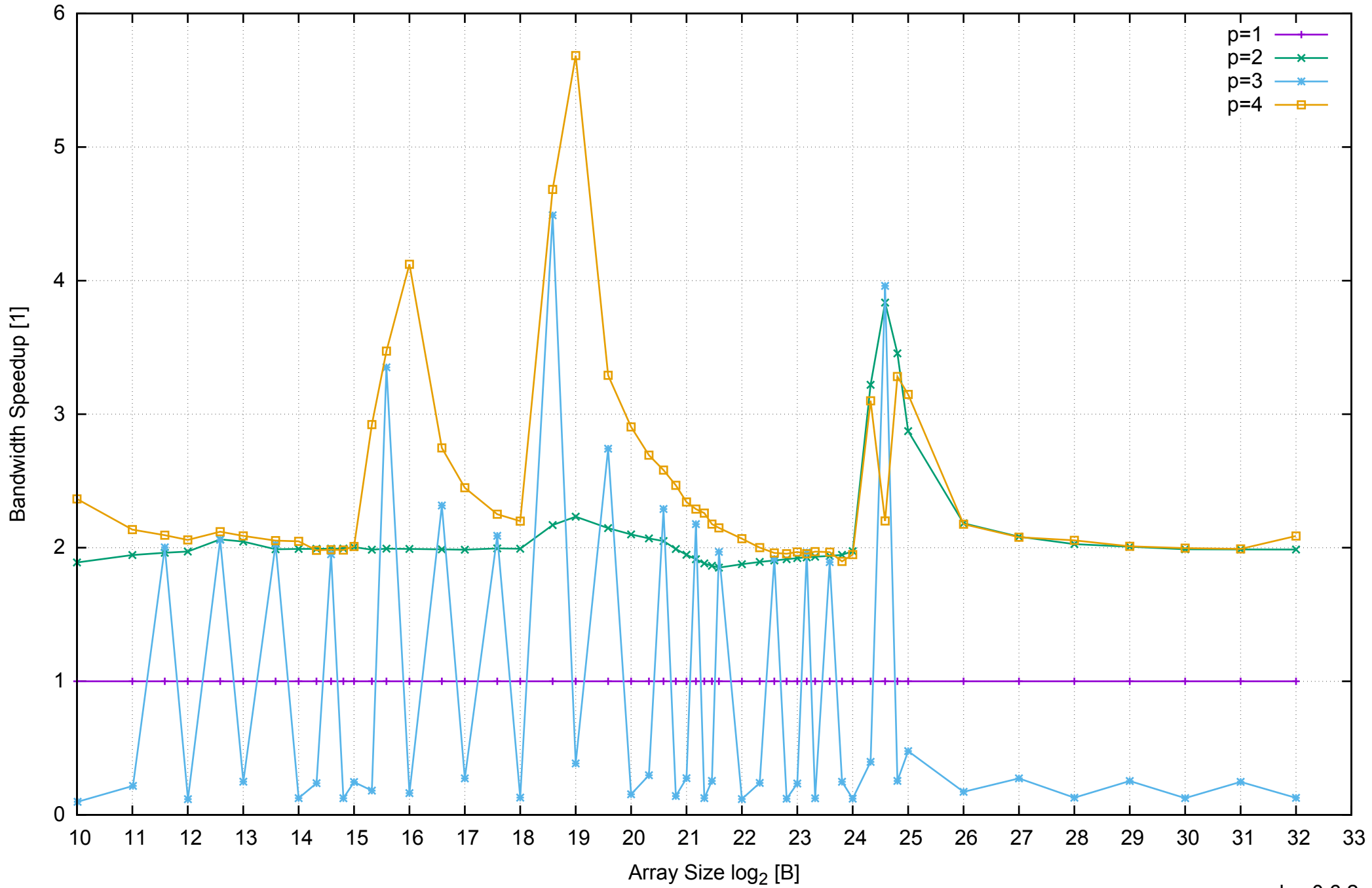
AWS m4.large - Intel Xeon E5-2676 v3, 2.40 GHz 8GB - Parallel Memory Bandwidth - PermRead64UnrollLoop



AWS m4.large - Intel Xeon E5-2676 v3, 2.40 GHz 8GB - Parallel Memory Access Time - PermRead64UnrollLoop



AWS m4.large - Intel Xeon E5-2676 v3, 2.40 GHz 8GB - Speedup of Parallel Memory Bandwidth - PermRead64UnrollLoop



AWS m4.large - Intel Xeon E5-2676 v3, 2.40 GHz 8GB - Speedup of Parallel Memory Bandwidth (enlarged) - PermRead64UnrollLoop

