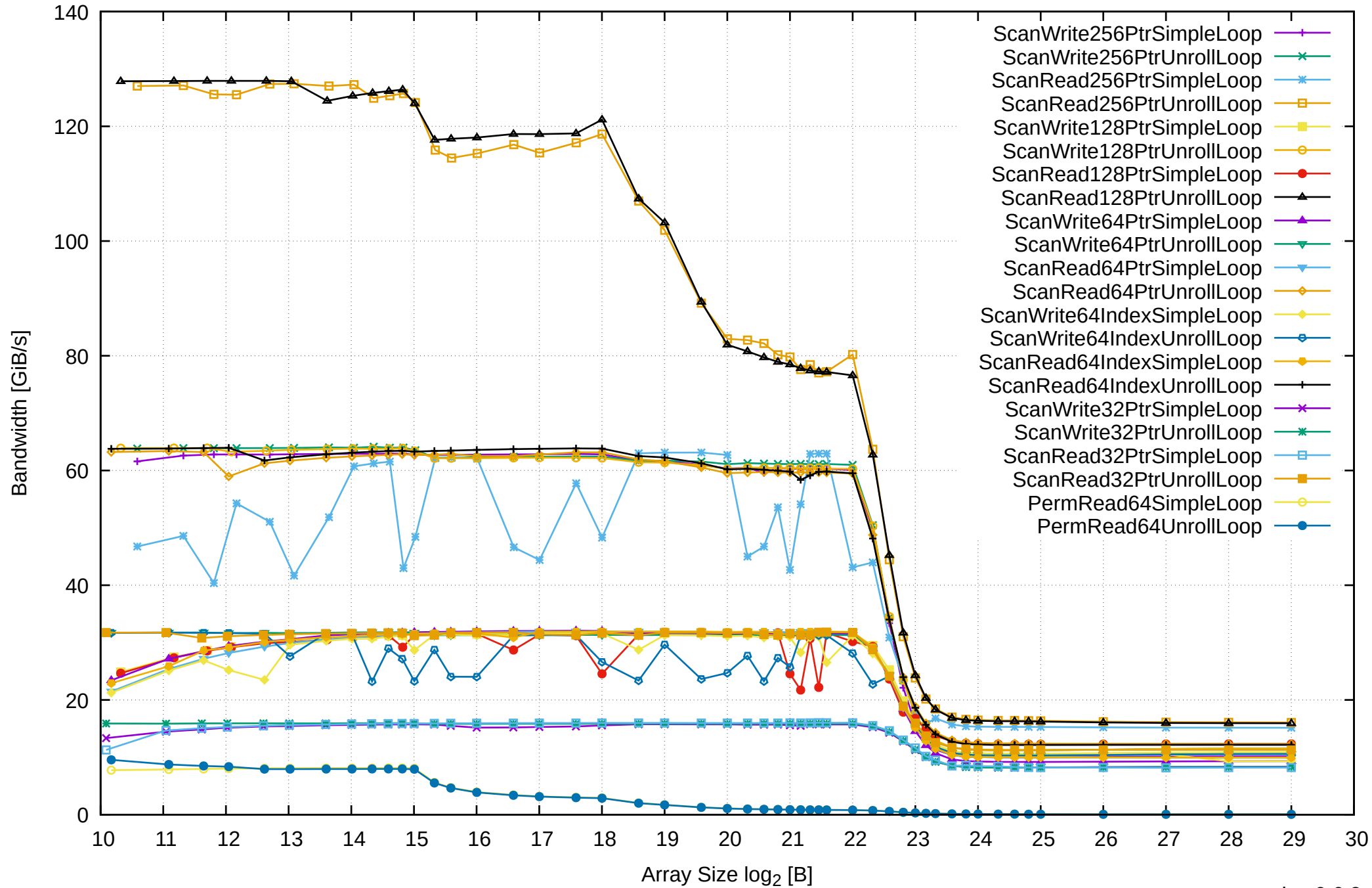
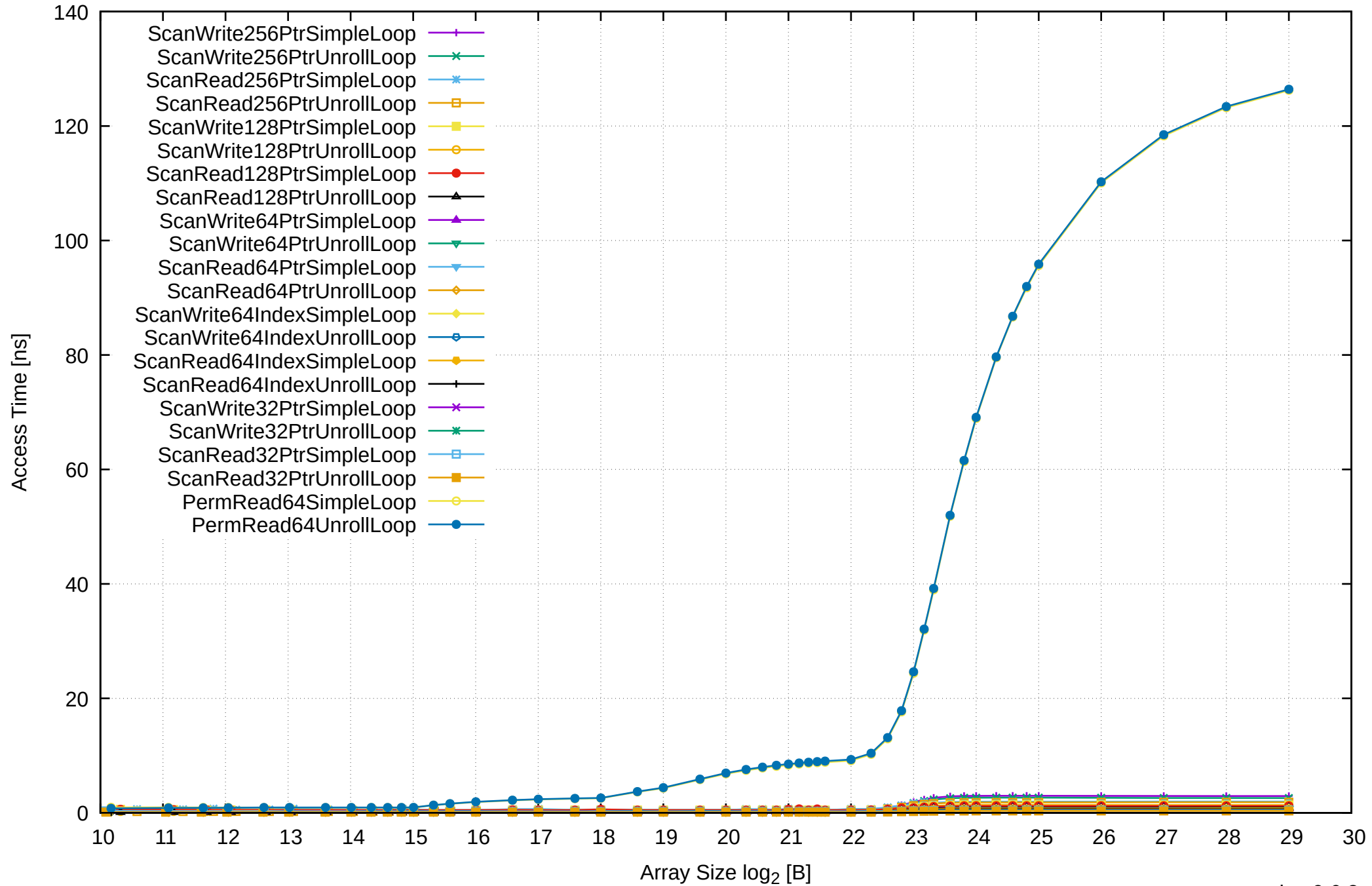


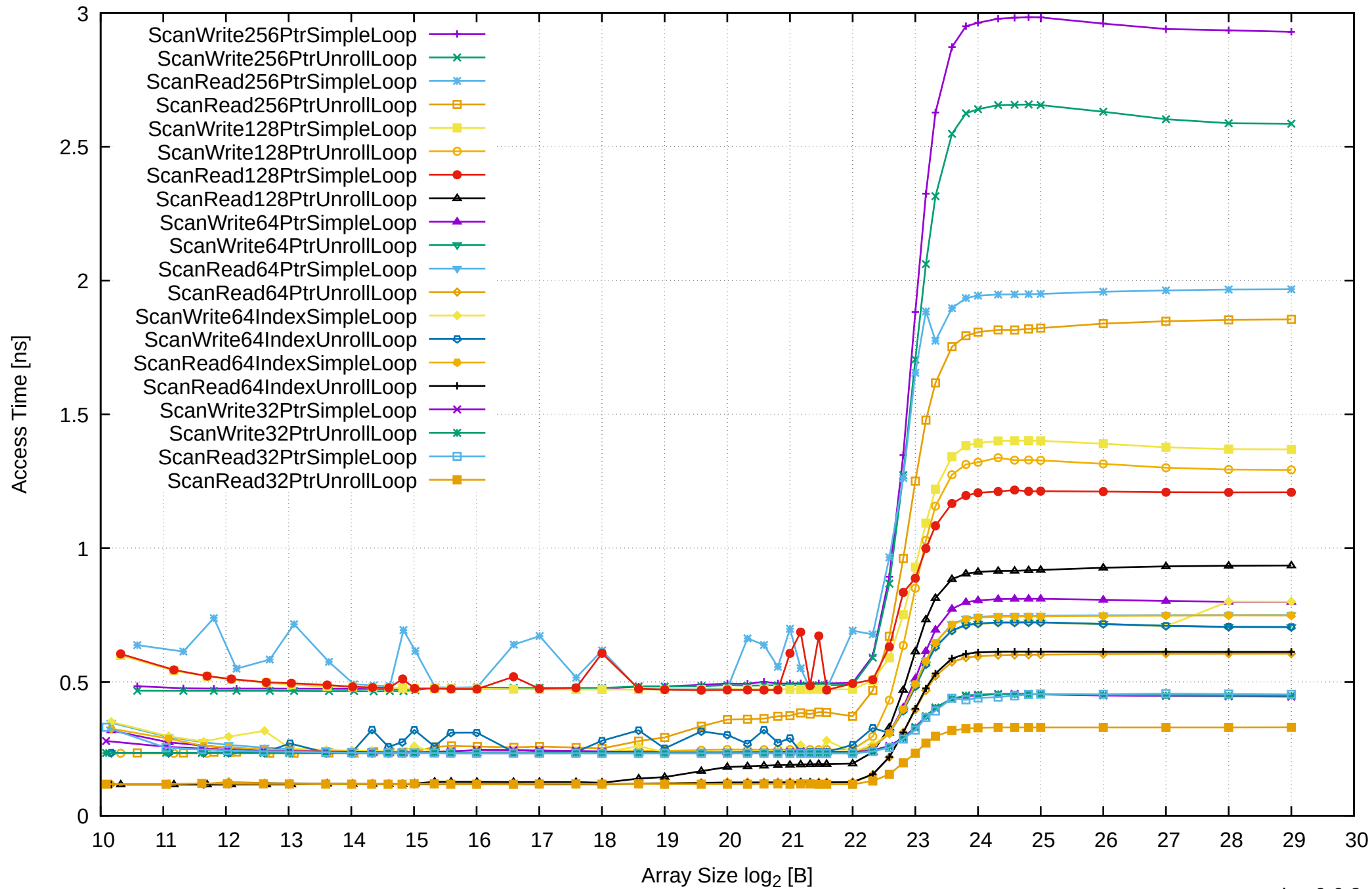
AMD Ryzen Threadripper 2950X 128GB - One Thread Memory Bandwidth



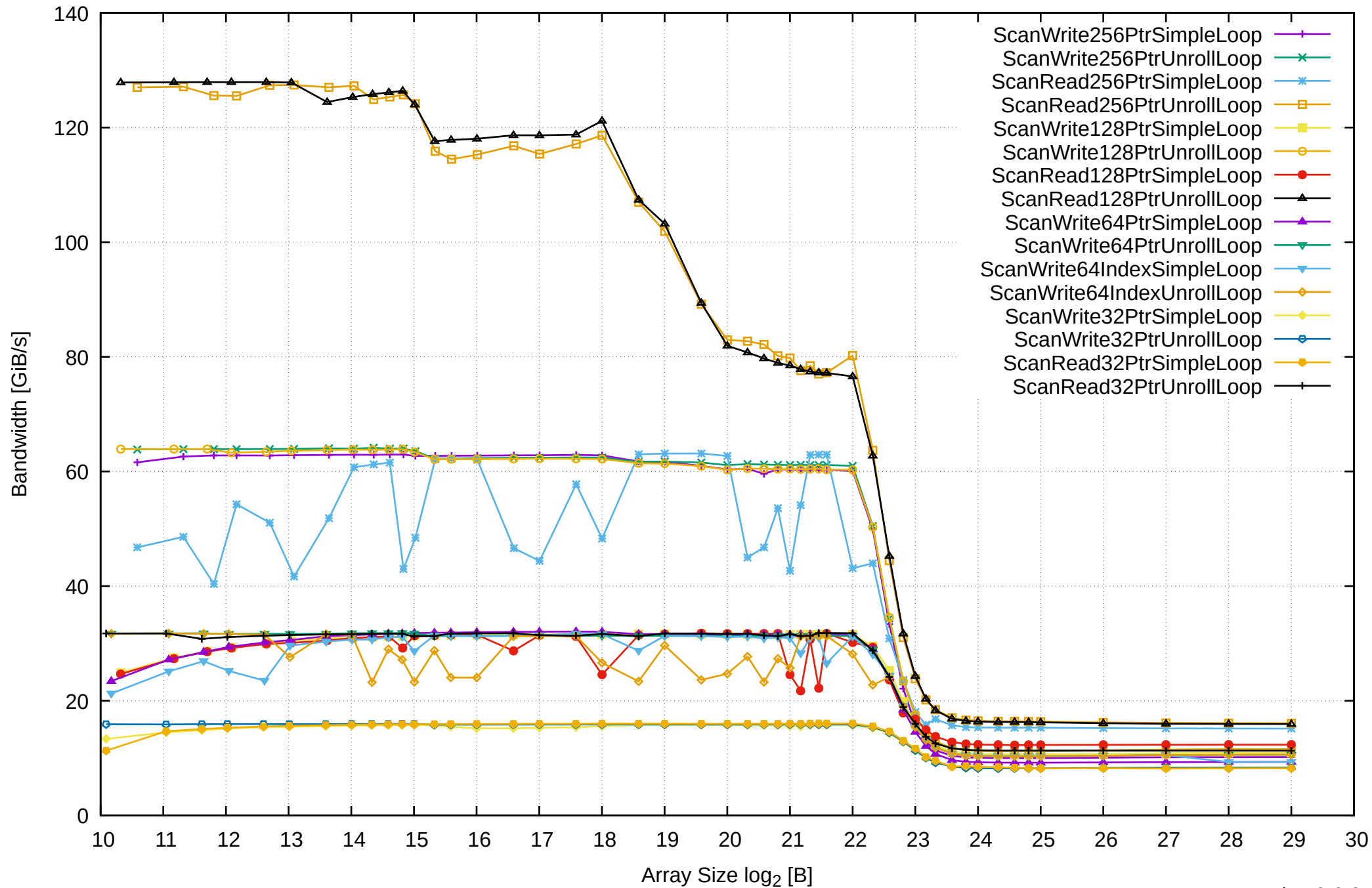
AMD Ryzen Threadripper 2950X 128GB - One Thread Memory Latency (Access Time)



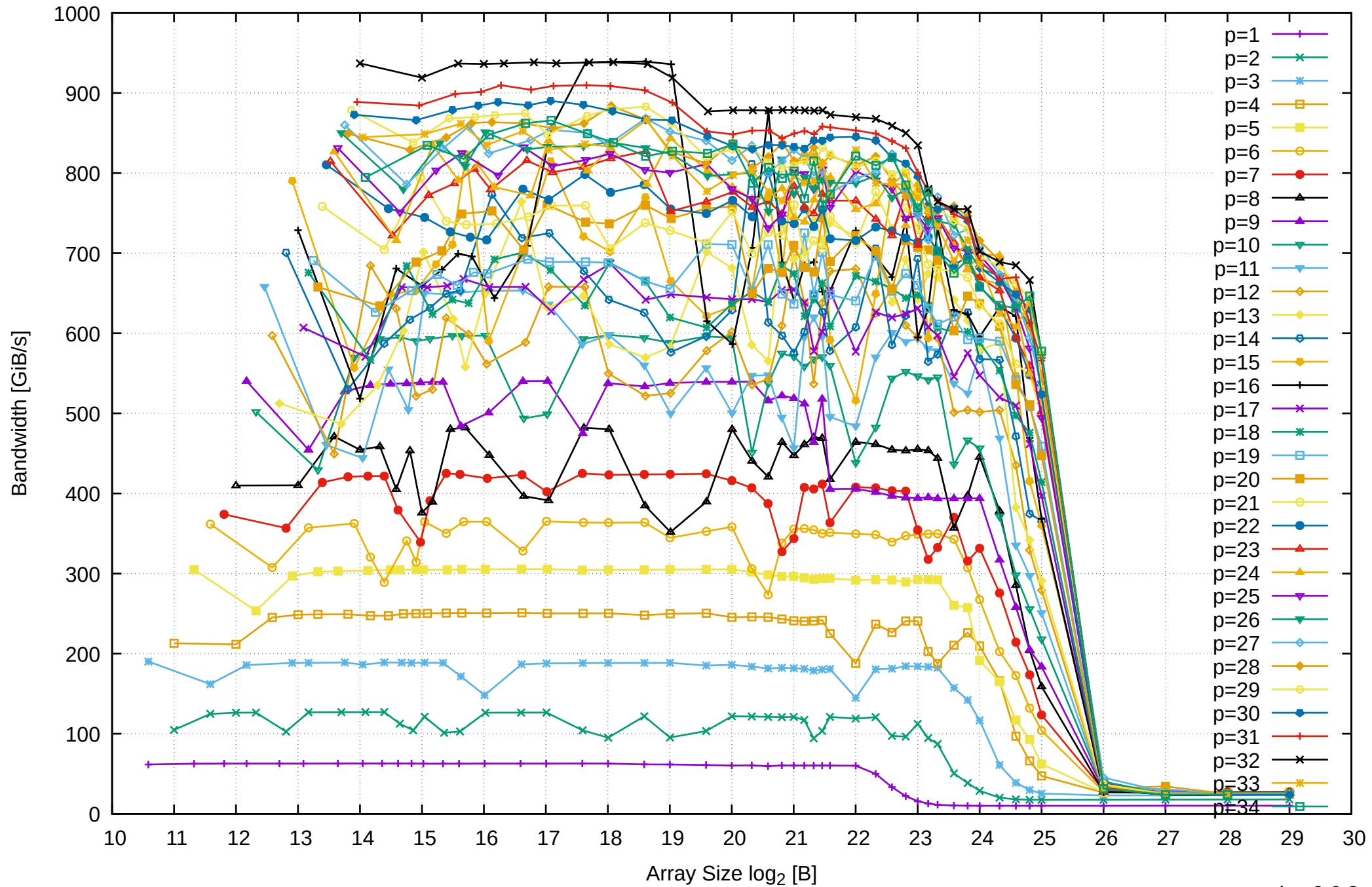
AMD Ryzen Threadripper 2950X 128GB - One Thread Memory Latency (excluding Permutation)



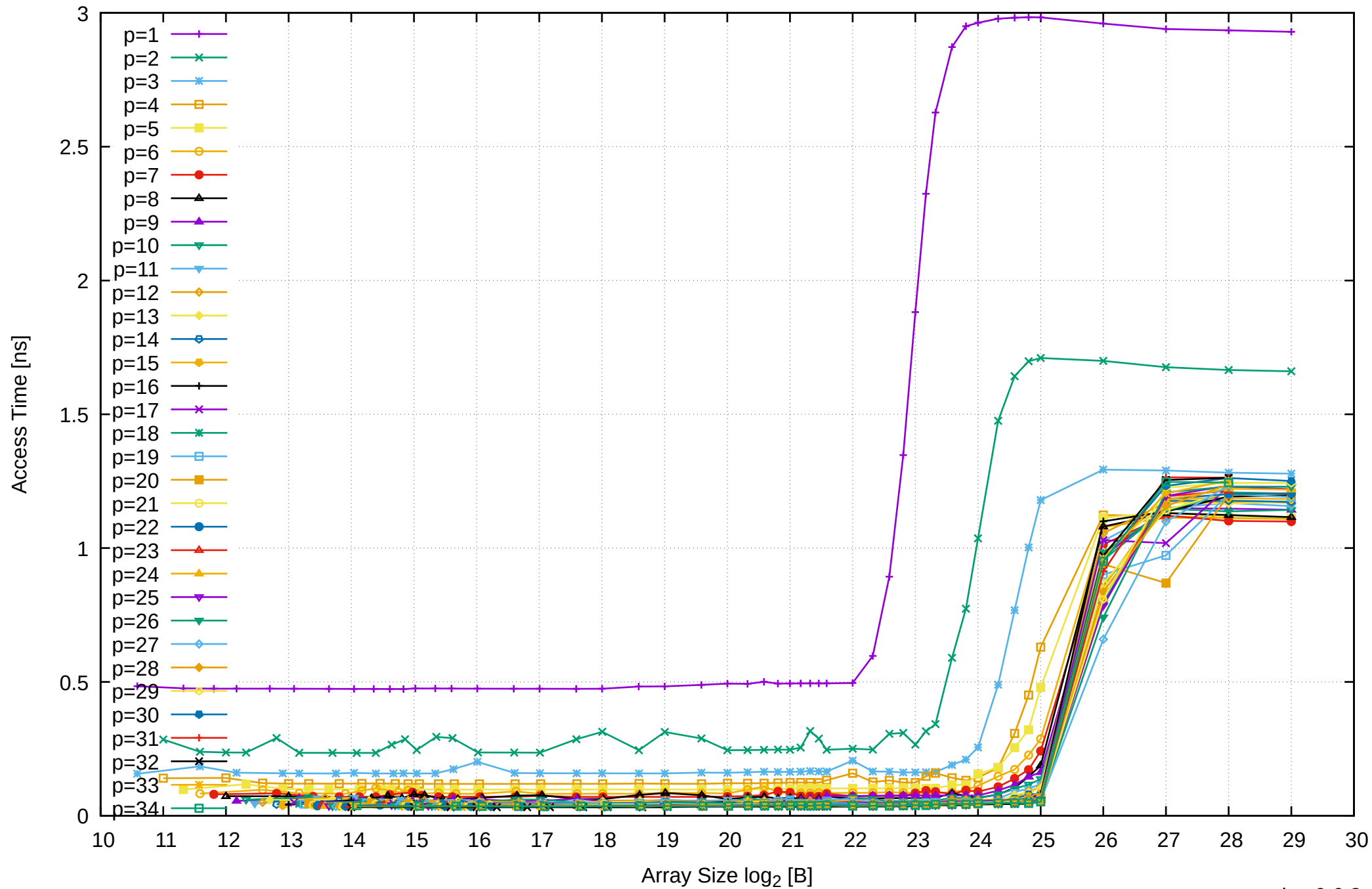
AMD Ryzen Threadripper 2950X 128GB - One Thread Memory Bandwidth (only 64-bit Reads)



AMD Ryzen Threadripper 2950X 128GB - Parallel Memory Bandwidth - ScanWrite256PtrSimpleLoop

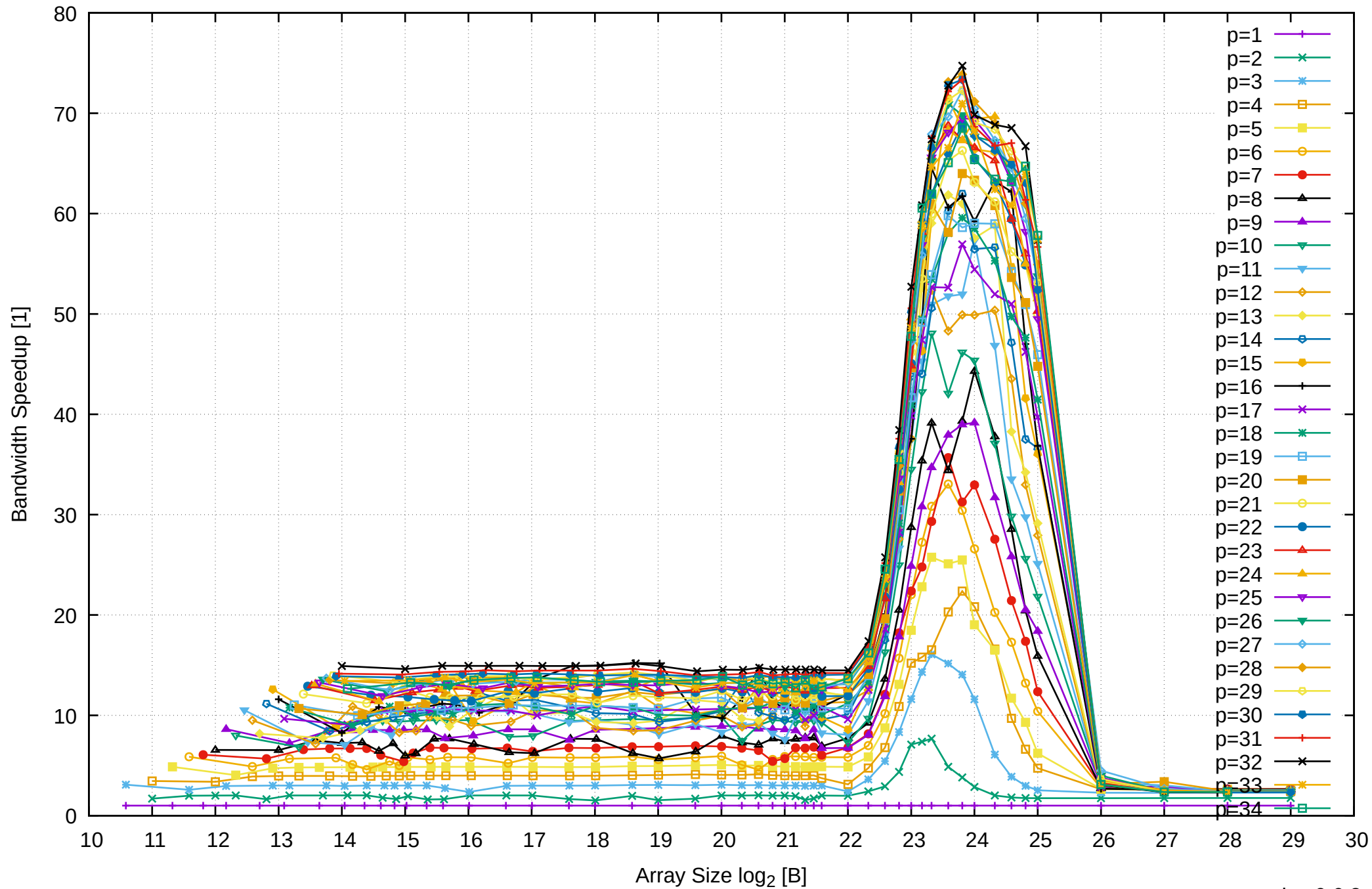


AMD Ryzen Threadripper 2950X 128GB - Parallel Memory Access Time - ScanWrite256PtrSimpleLoop

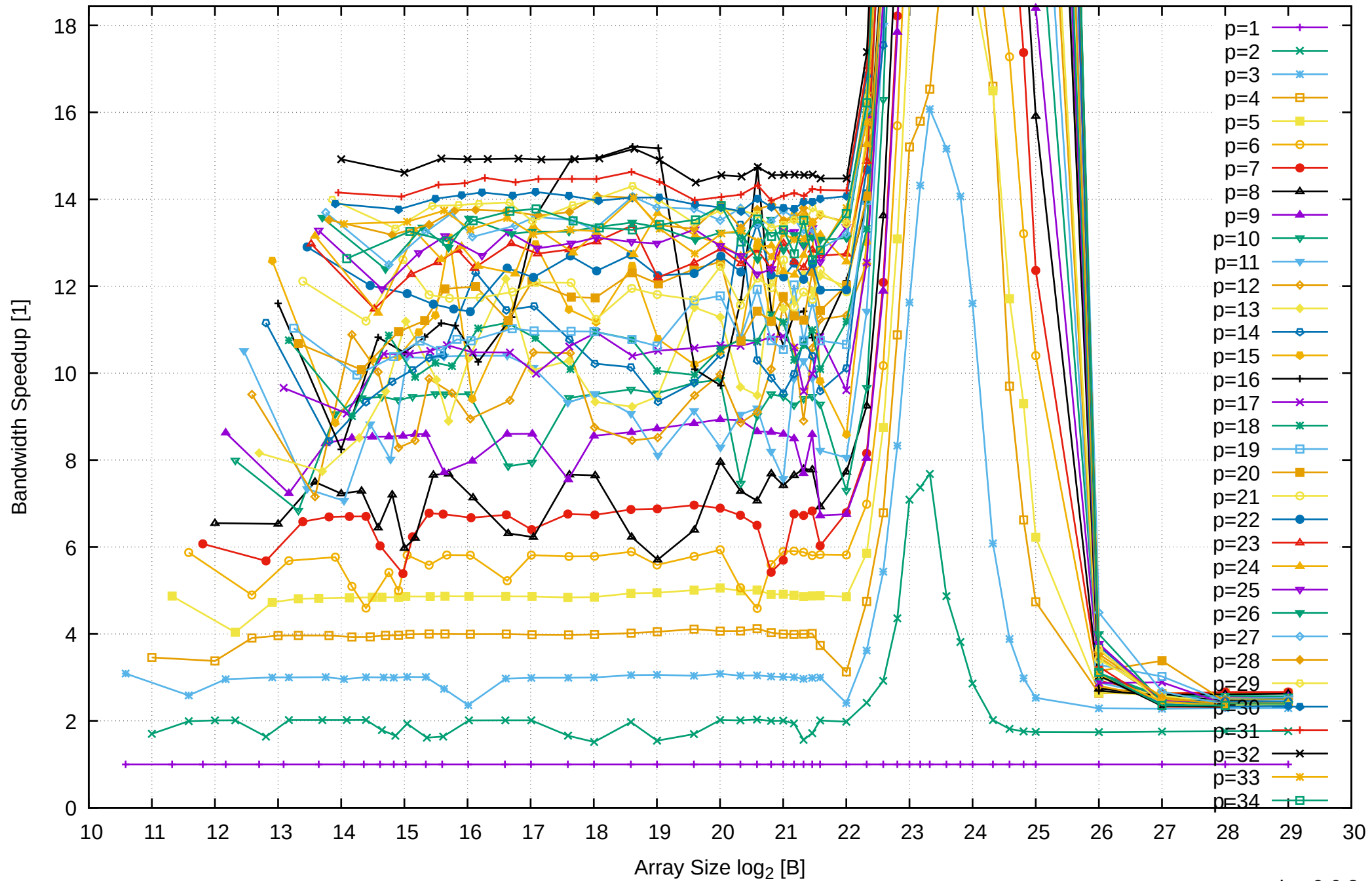




AMD Ryzen Threadripper 2950X 128GB - Speedup of Parallel Memory Bandwidth - ScanWrite256PtrSimpleLoop

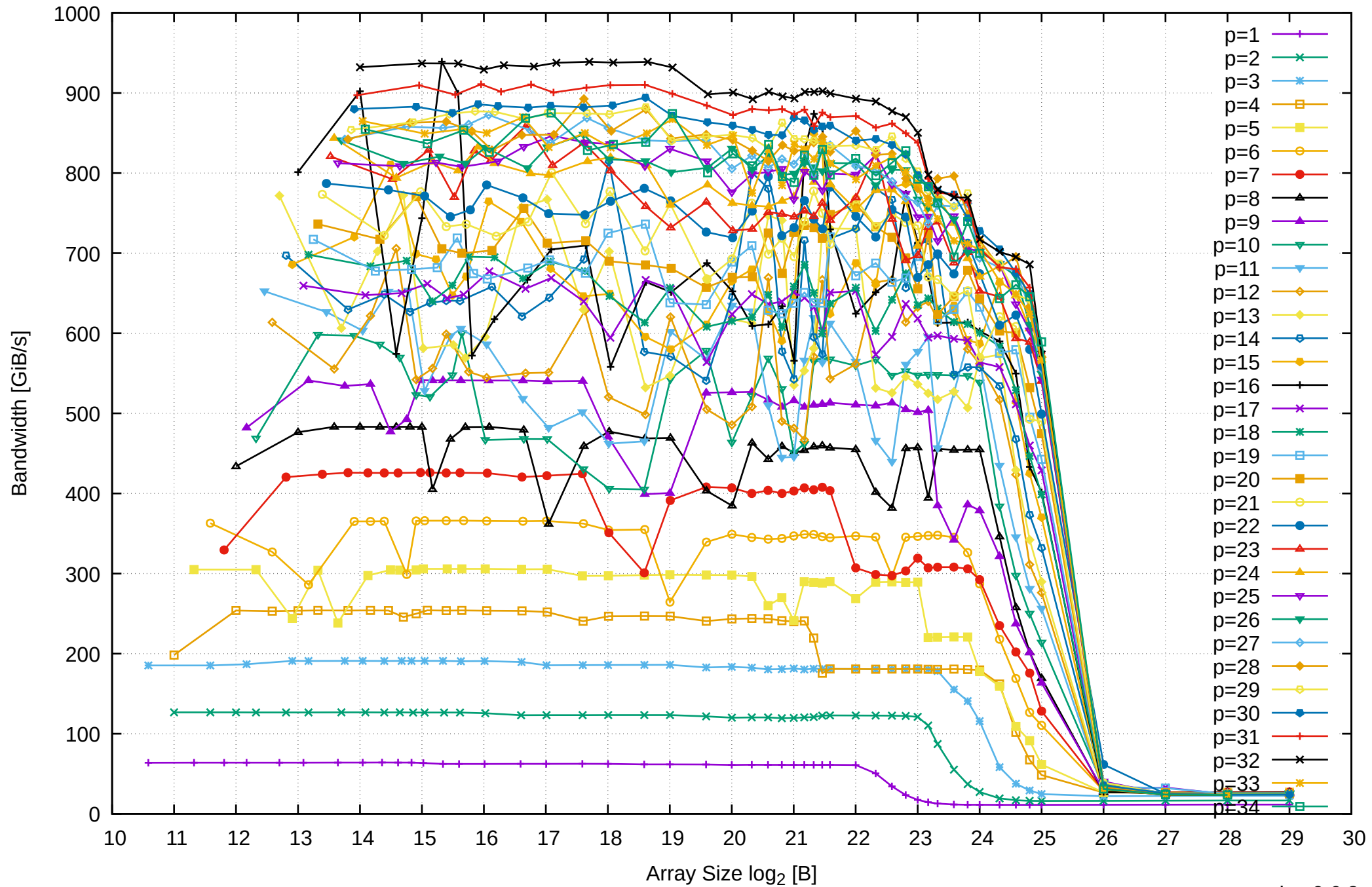


AMD Ryzen Threadripper 2950X 128GB - Speedup of Parallel Memory Bandwidth (enlarged) - ScanWrite256PtrSimpleLoop

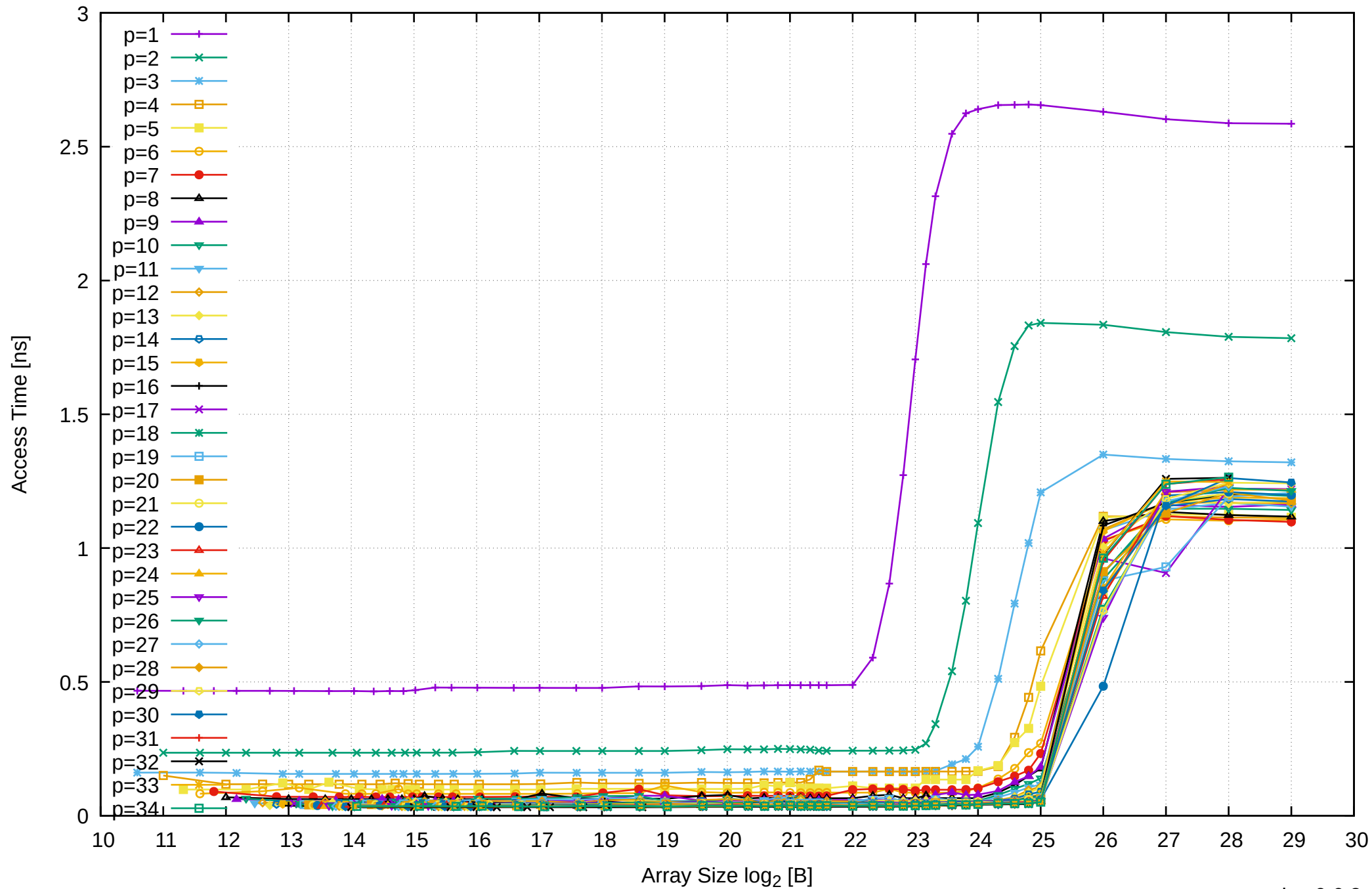




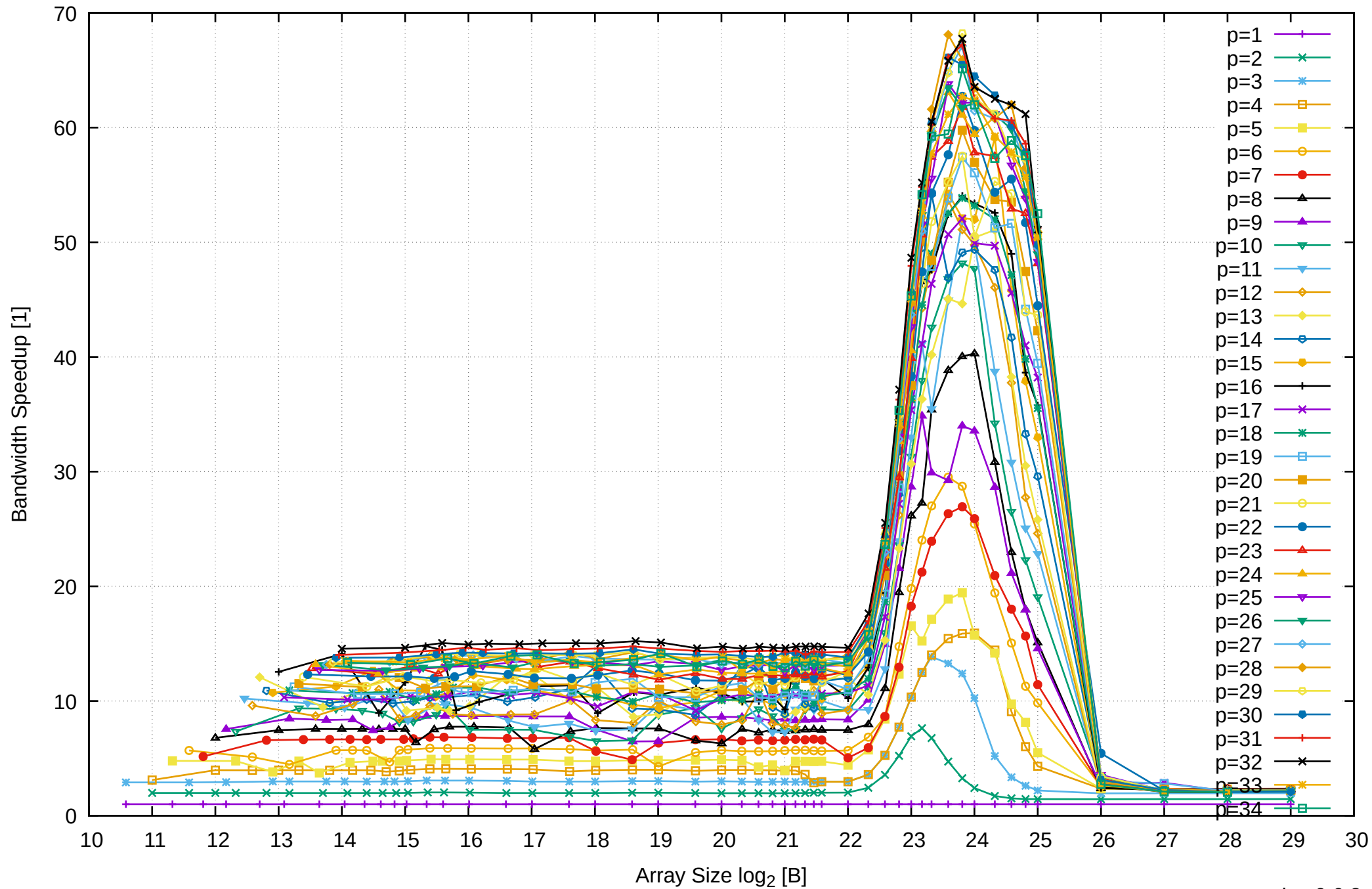
AMD Ryzen Threadripper 2950X 128GB - Parallel Memory Bandwidth - ScanWrite256PtrUnrollLoop



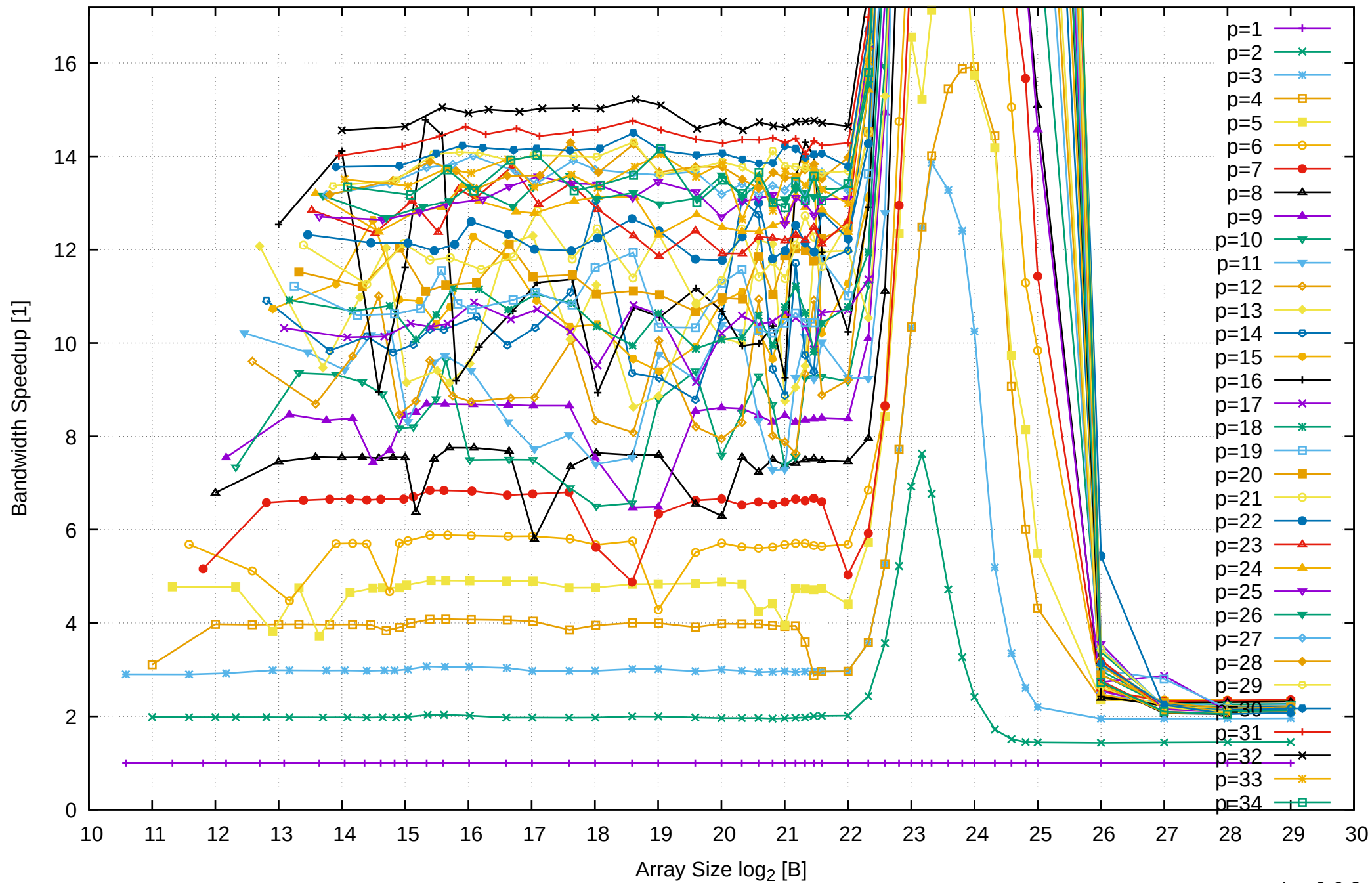
AMD Ryzen Threadripper 2950X 128GB - Parallel Memory Access Time - ScanWrite256PtrUnrollLoop



AMD Ryzen Threadripper 2950X 128GB - Speedup of Parallel Memory Bandwidth - ScanWrite256PtrUnrollLoop

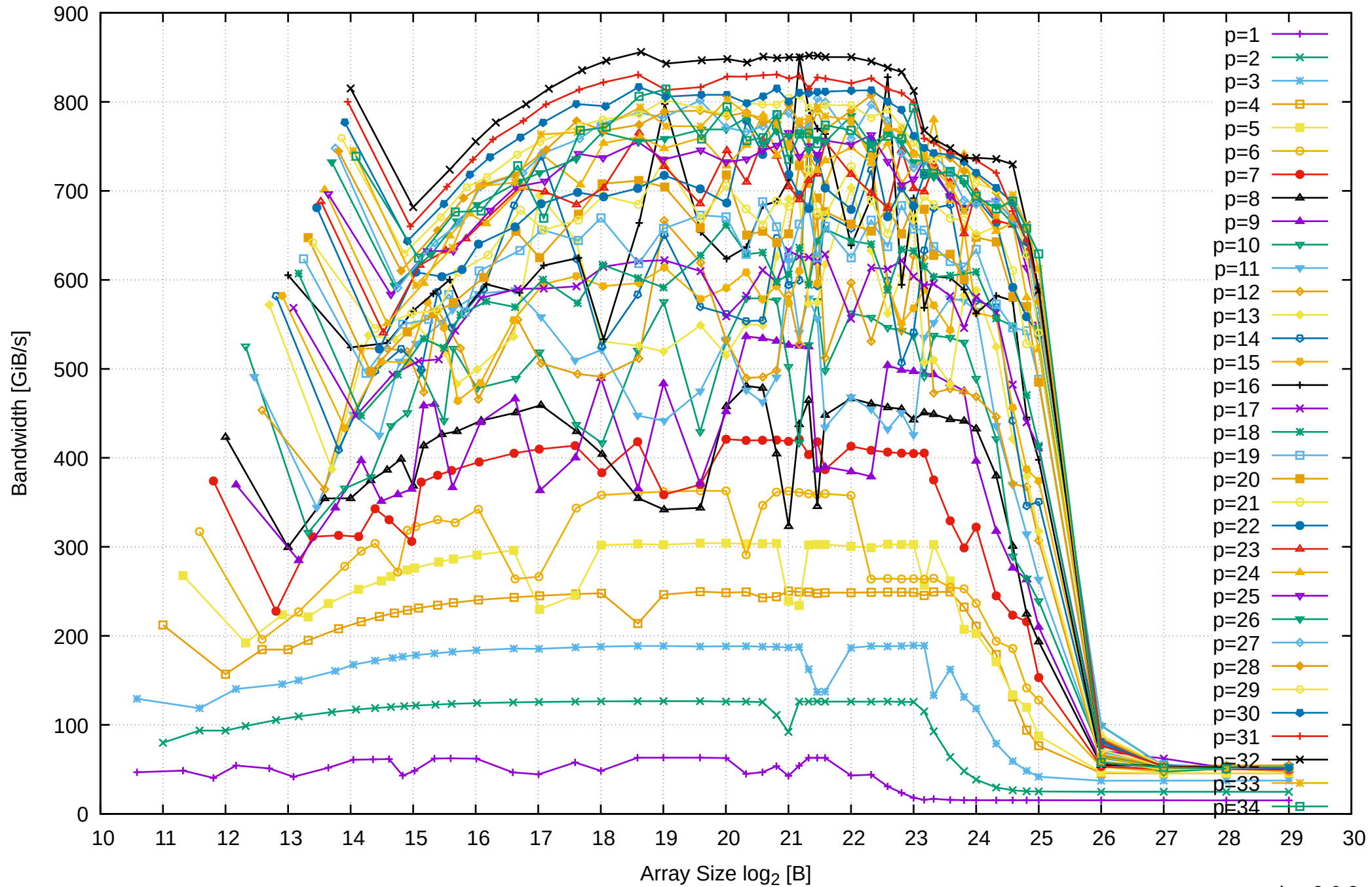


AMD Ryzen Threadripper 2950X 128GB - Speedup of Parallel Memory Bandwidth (enlarged) - ScanWrite256PtrUnrollLoop

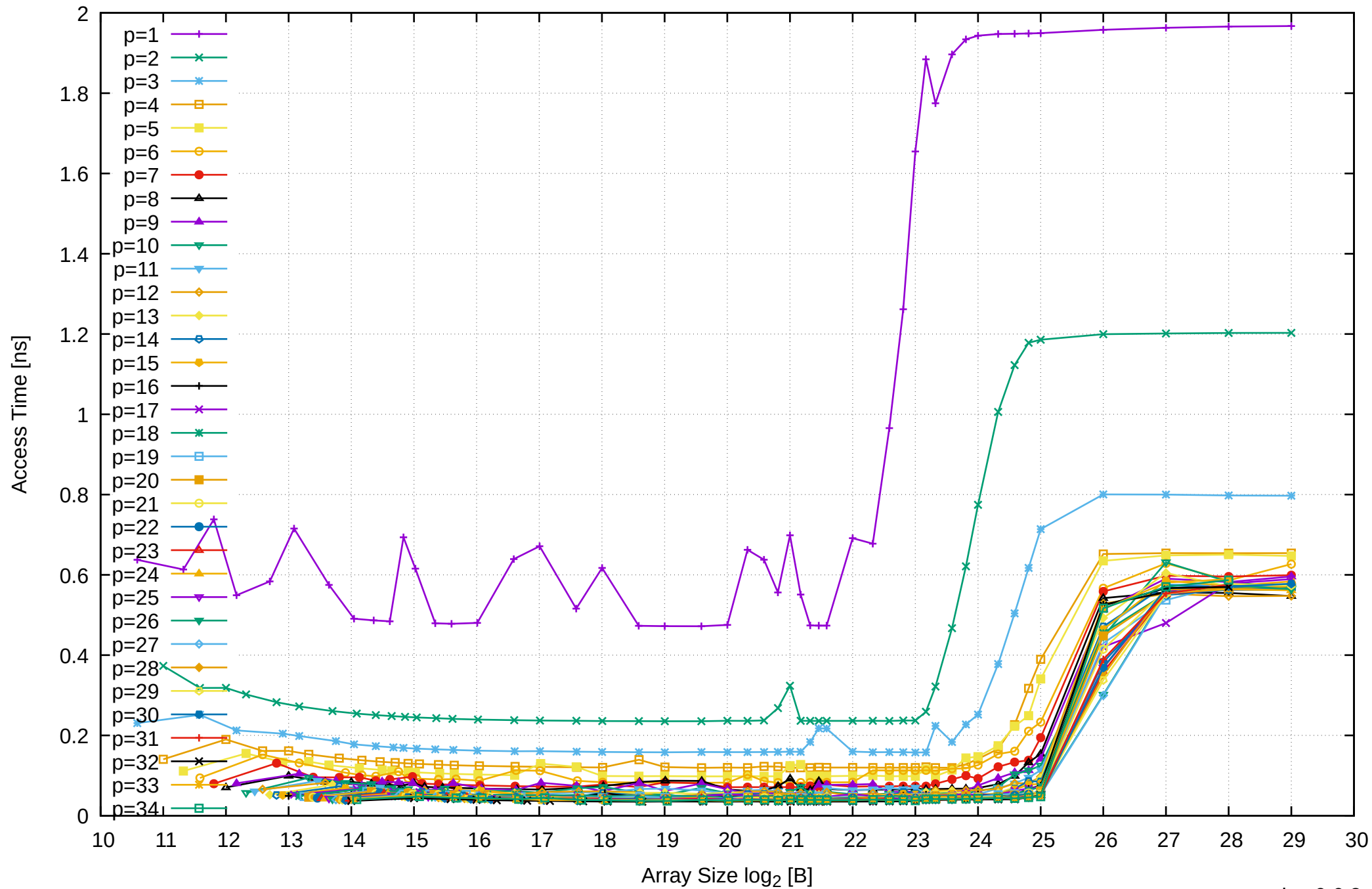




AMD Ryzen Threadripper 2950X 128GB - Parallel Memory Bandwidth - ScanRead256PtrSimpleLoop

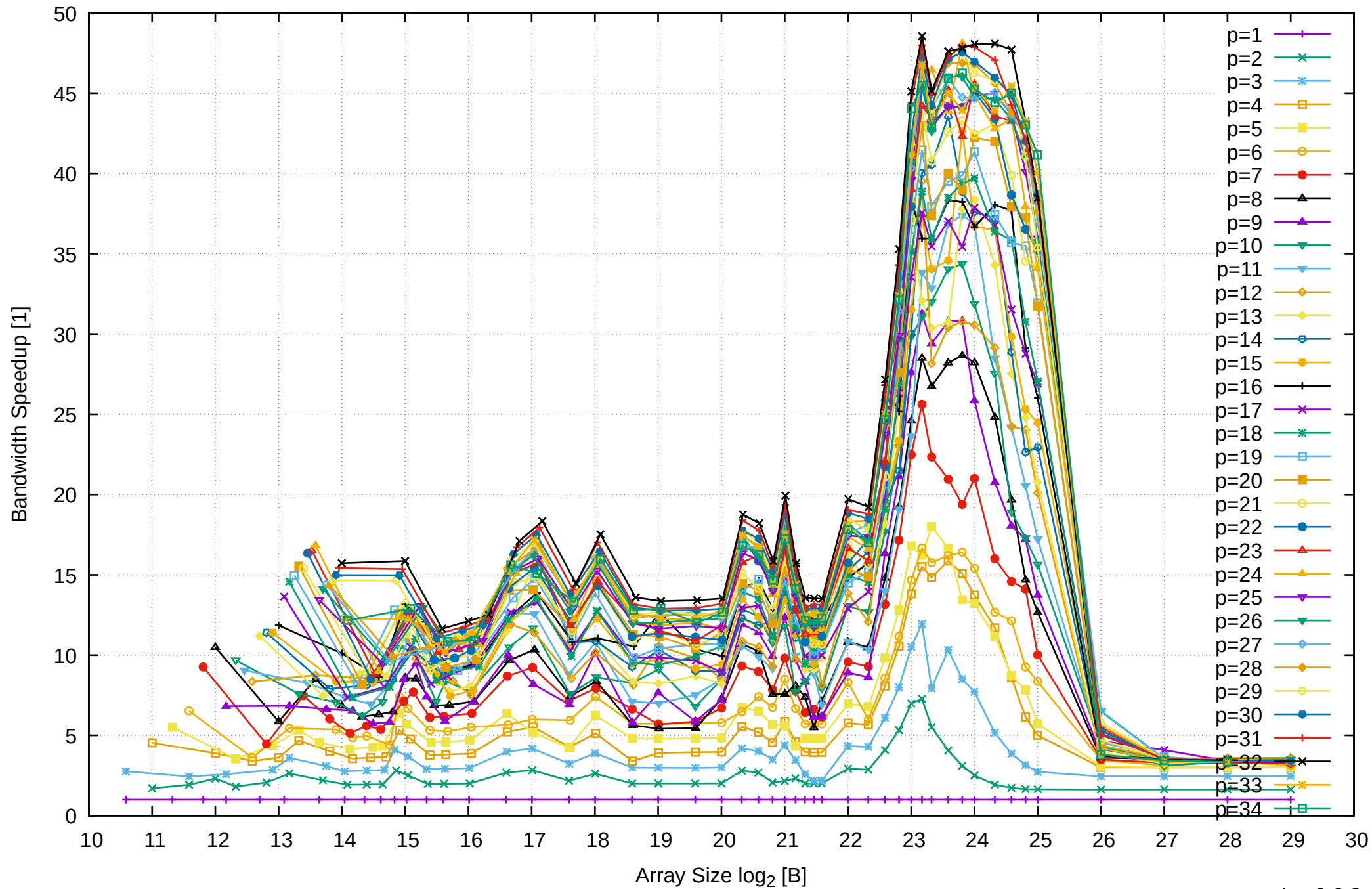


AMD Ryzen Threadripper 2950X 128GB - Parallel Memory Access Time - ScanRead256PtrSimpleLoop

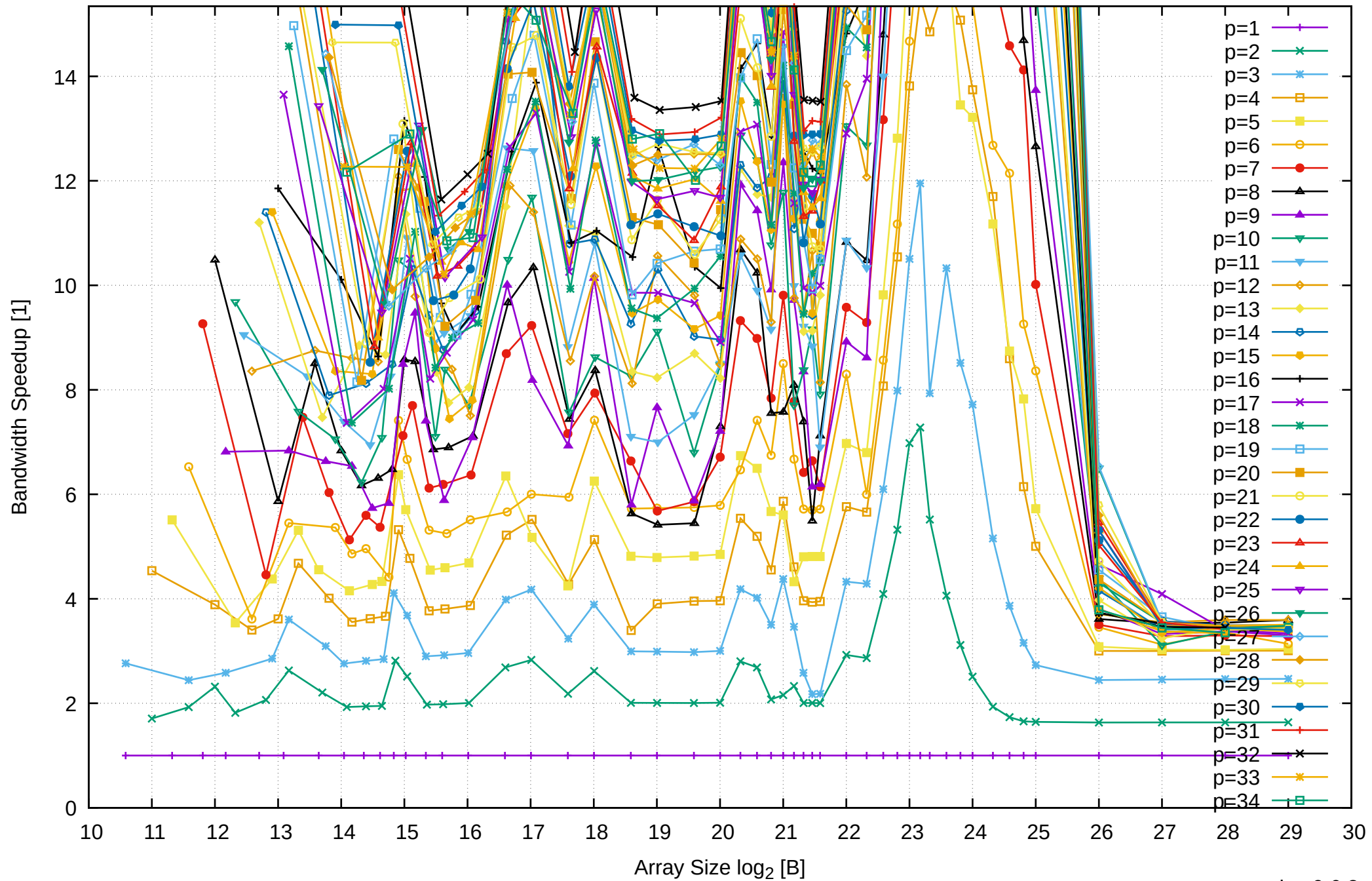




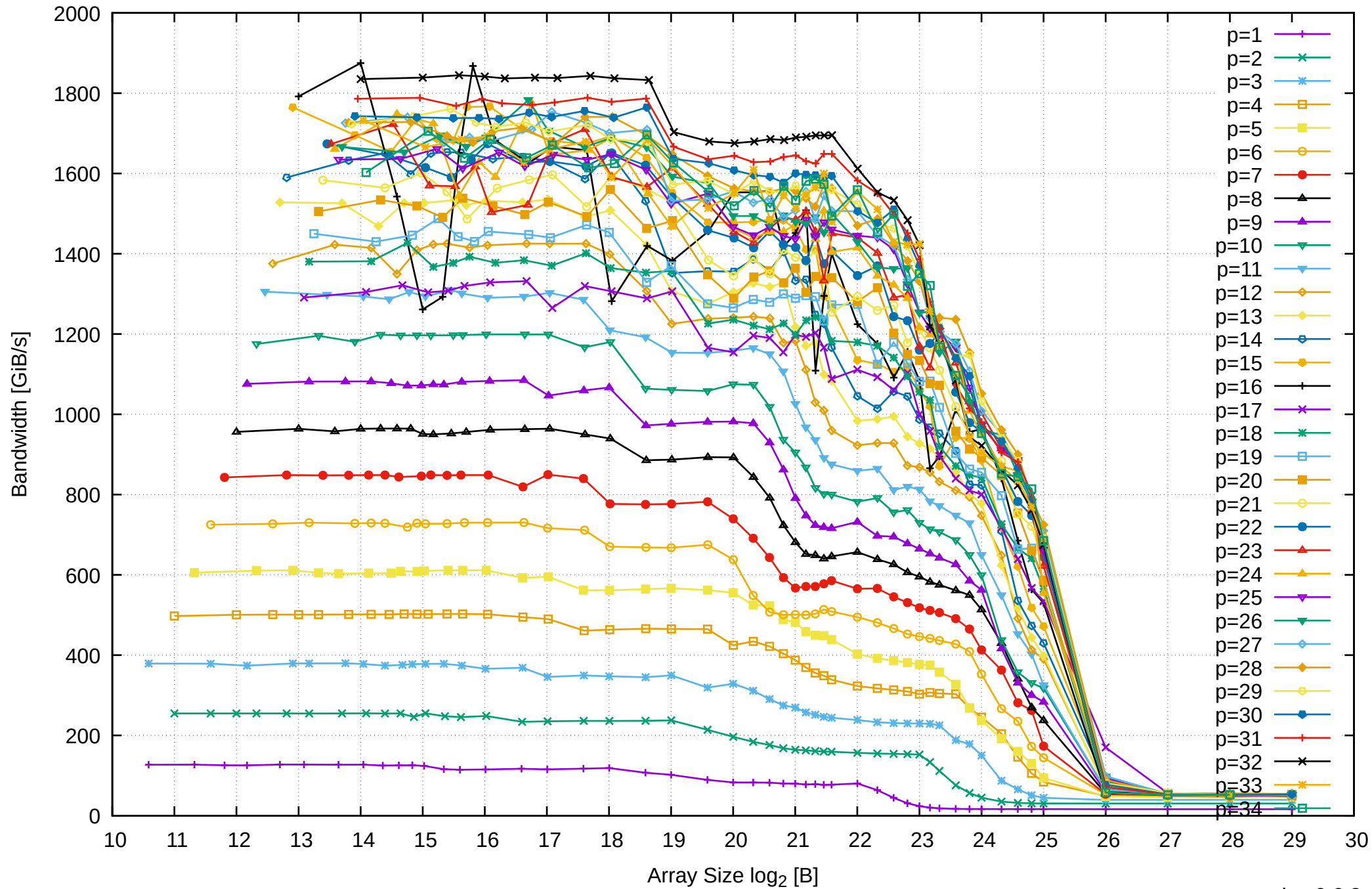
AMD Ryzen Threadripper 2950X 128GB - Speedup of Parallel Memory Bandwidth - ScanRead256PtrSimpleLoop



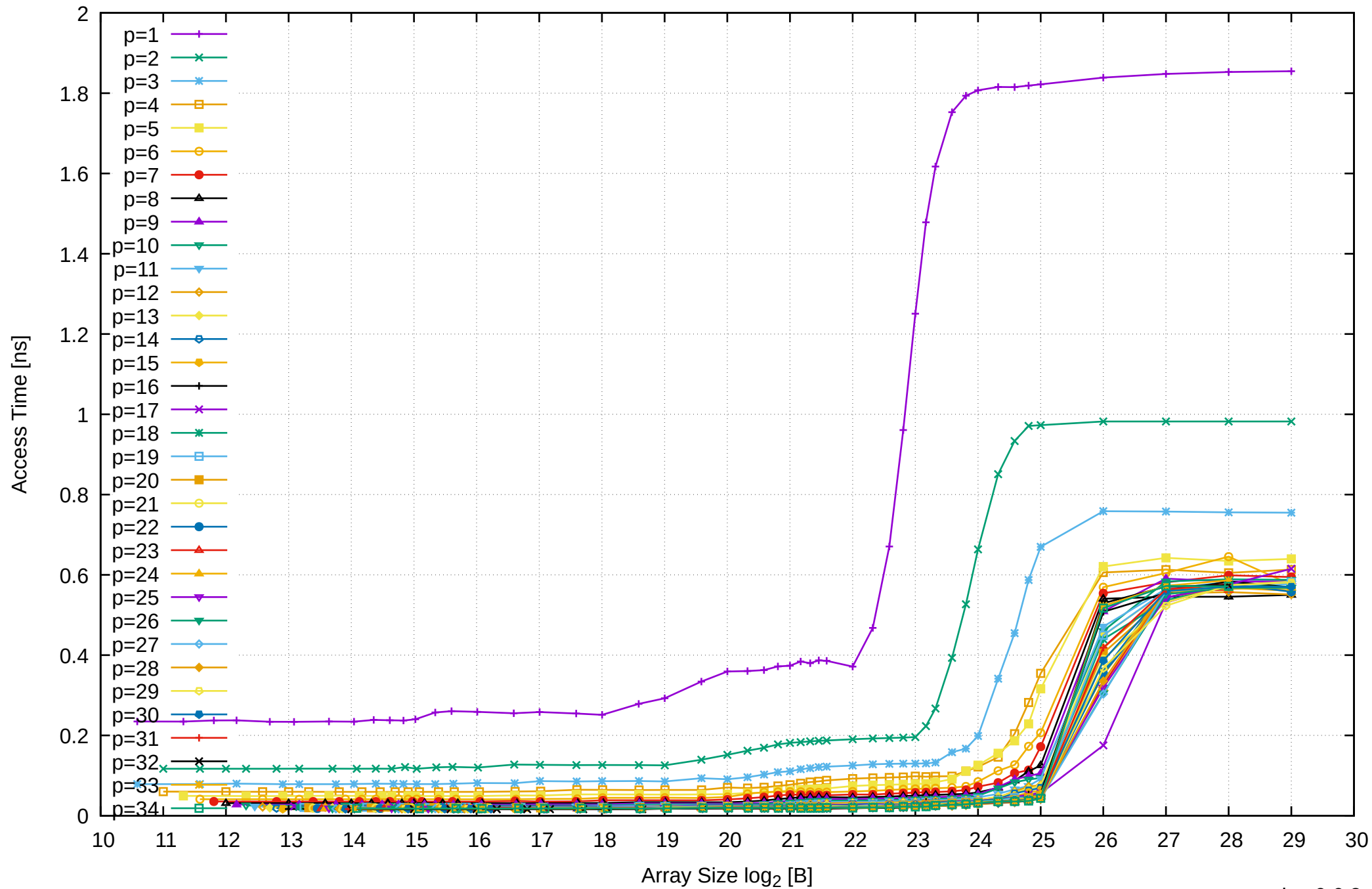
AMD Ryzen Threadripper 2950X 128GB - Speedup of Parallel Memory Bandwidth (enlarged) - ScanRead256PtrSimpleLoop



AMD Ryzen Threadripper 2950X 128GB - Parallel Memory Bandwidth - ScanRead256PtrUnrollLoop

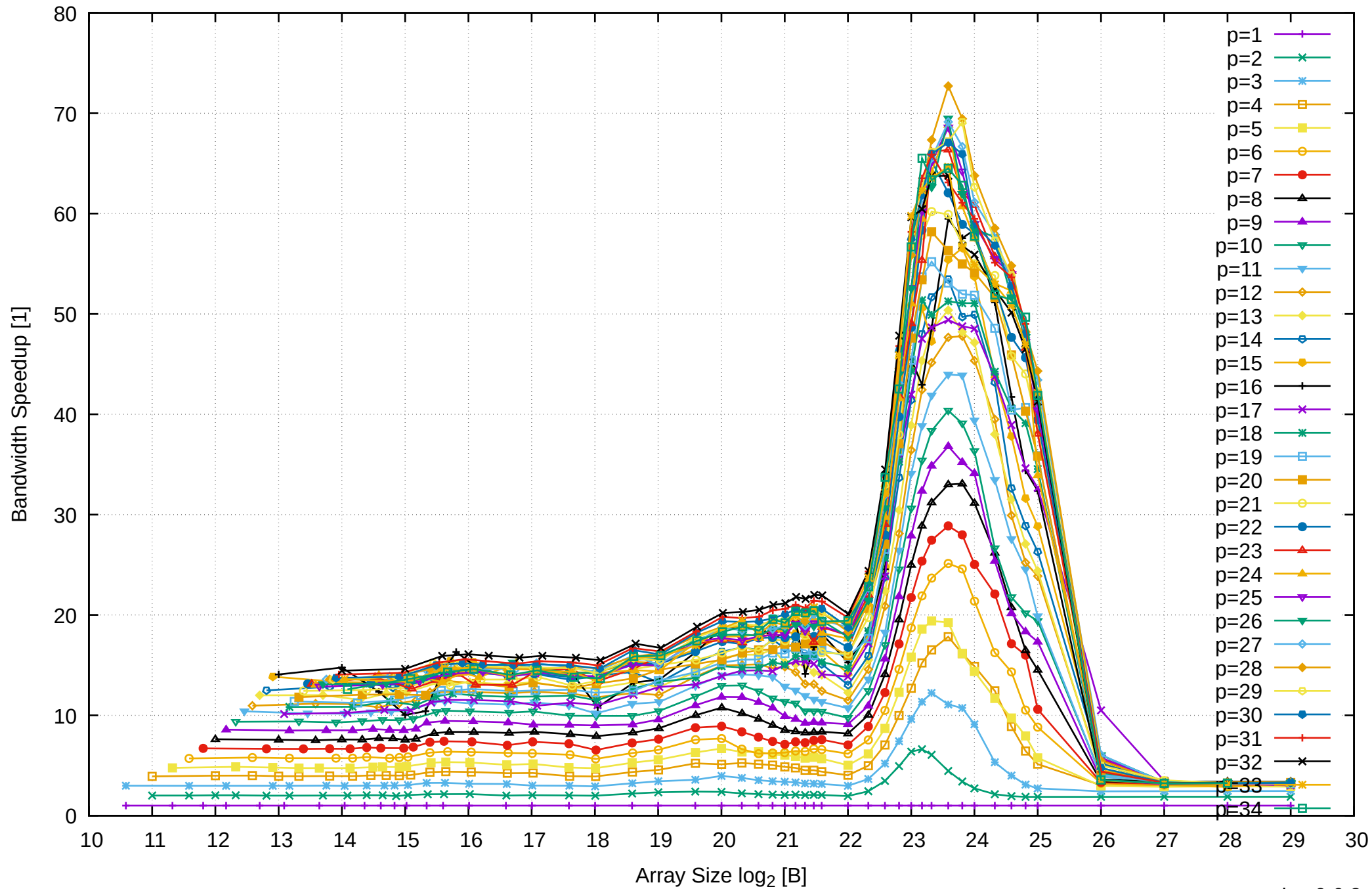


AMD Ryzen Threadripper 2950X 128GB - Parallel Memory Access Time - ScanRead256PtrUnrollLoop

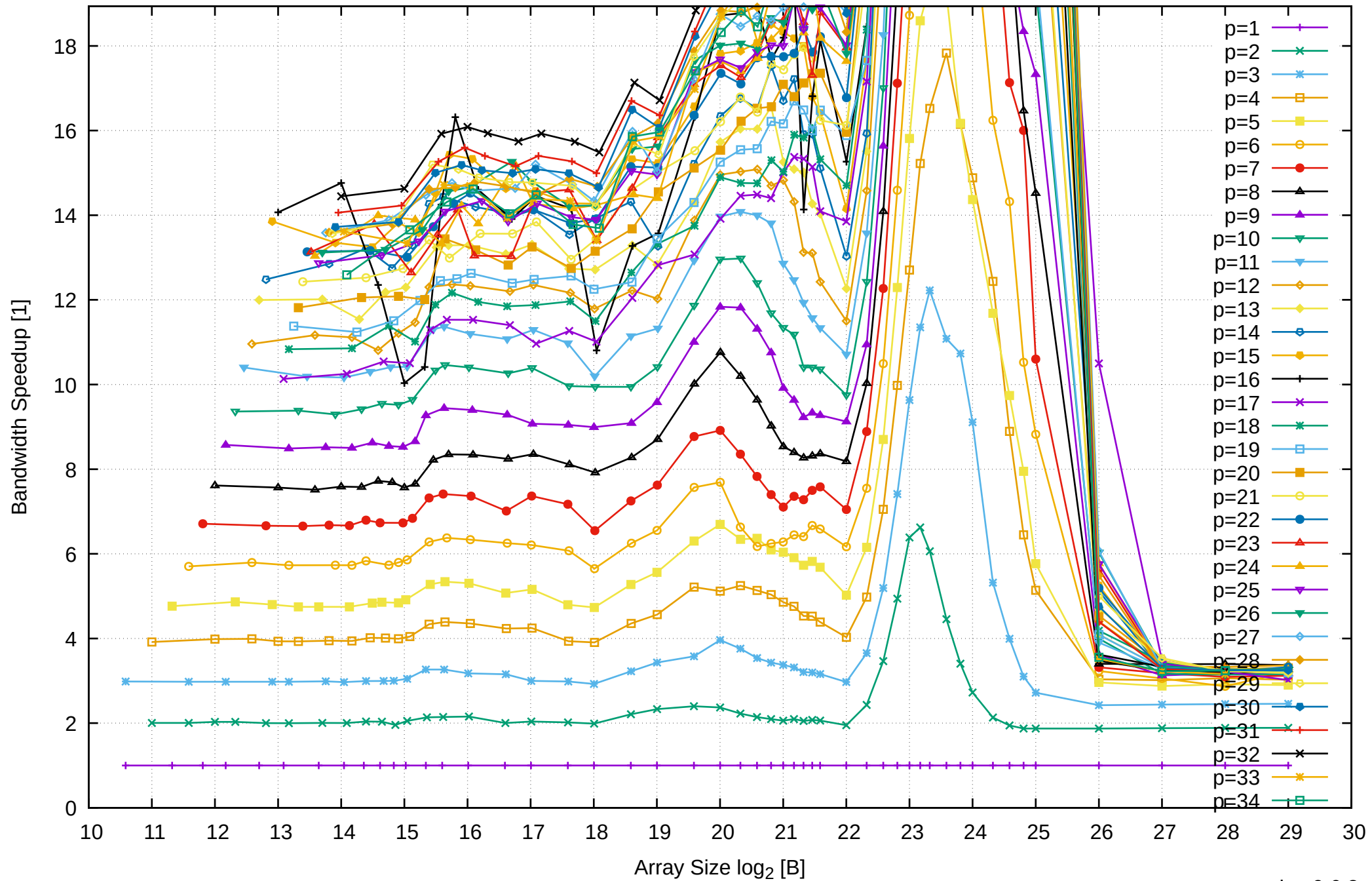




AMD Ryzen Threadripper 2950X 128GB - Speedup of Parallel Memory Bandwidth - ScanRead256PtrUnrollLoop

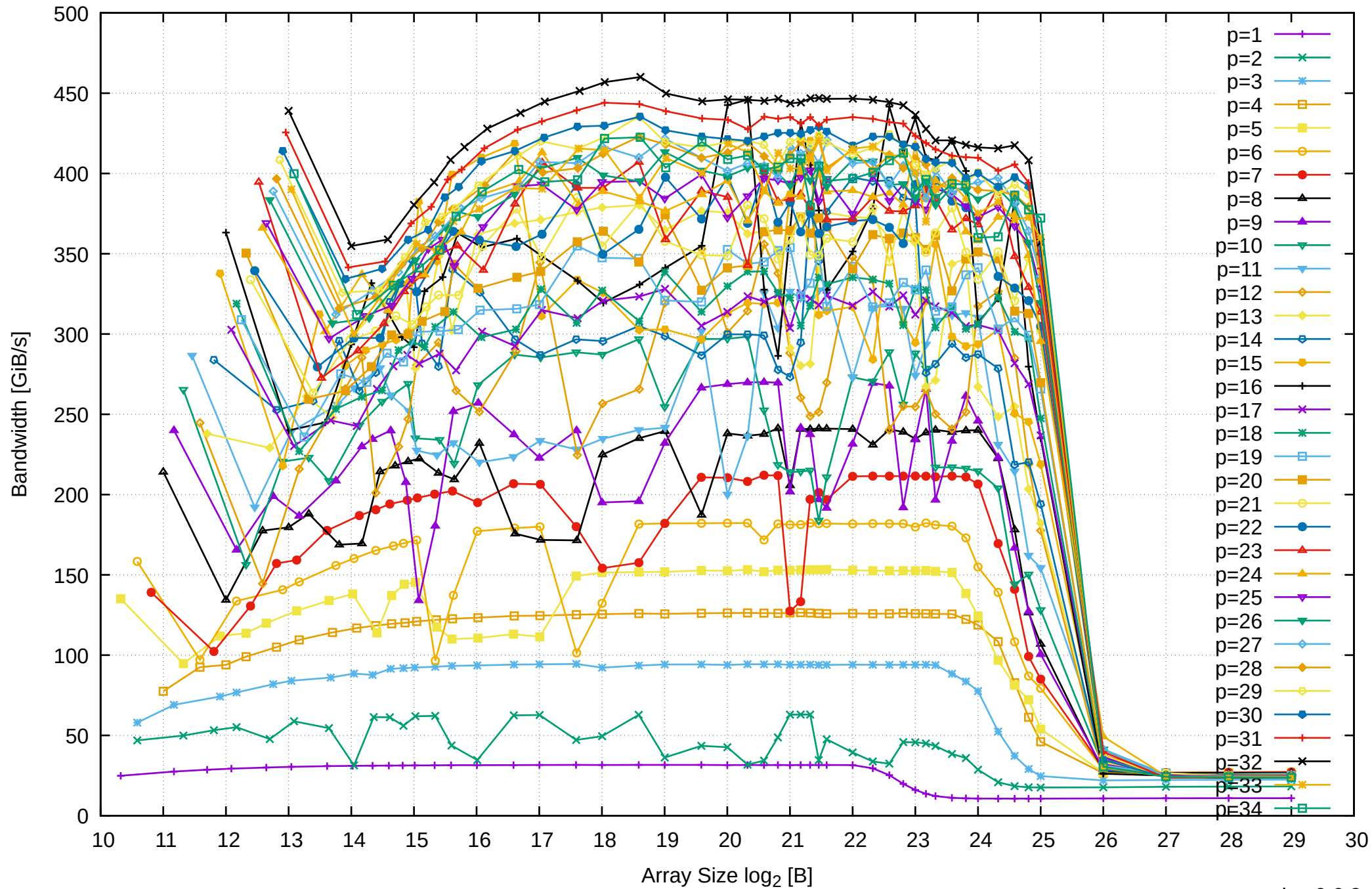


AMD Ryzen Threadripper 2950X 128GB - Speedup of Parallel Memory Bandwidth (enlarged) - ScanRead256PtrUnrollLoop

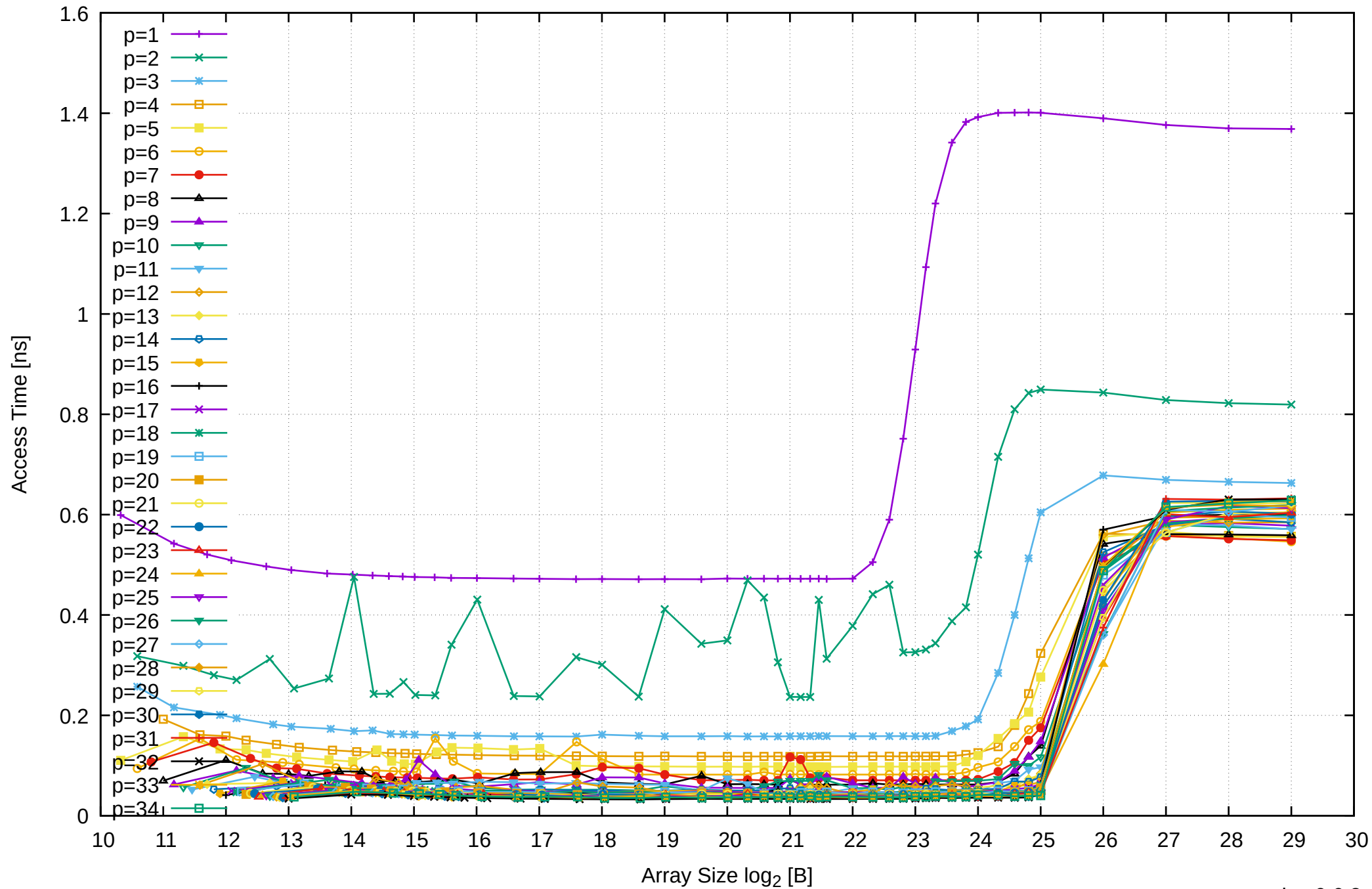




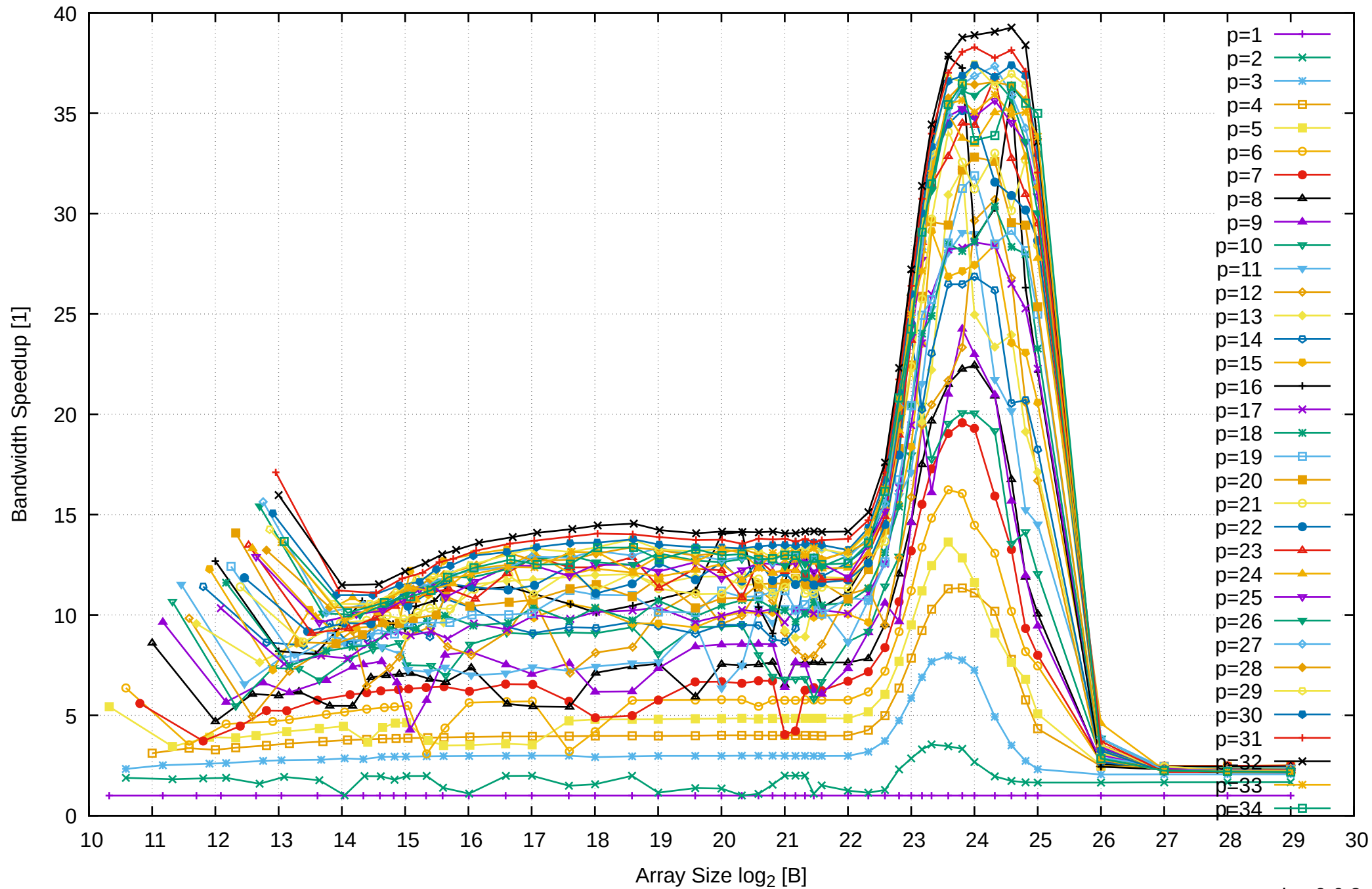
AMD Ryzen Threadripper 2950X 128GB - Parallel Memory Bandwidth - ScanWrite128PtrSimpleLoop



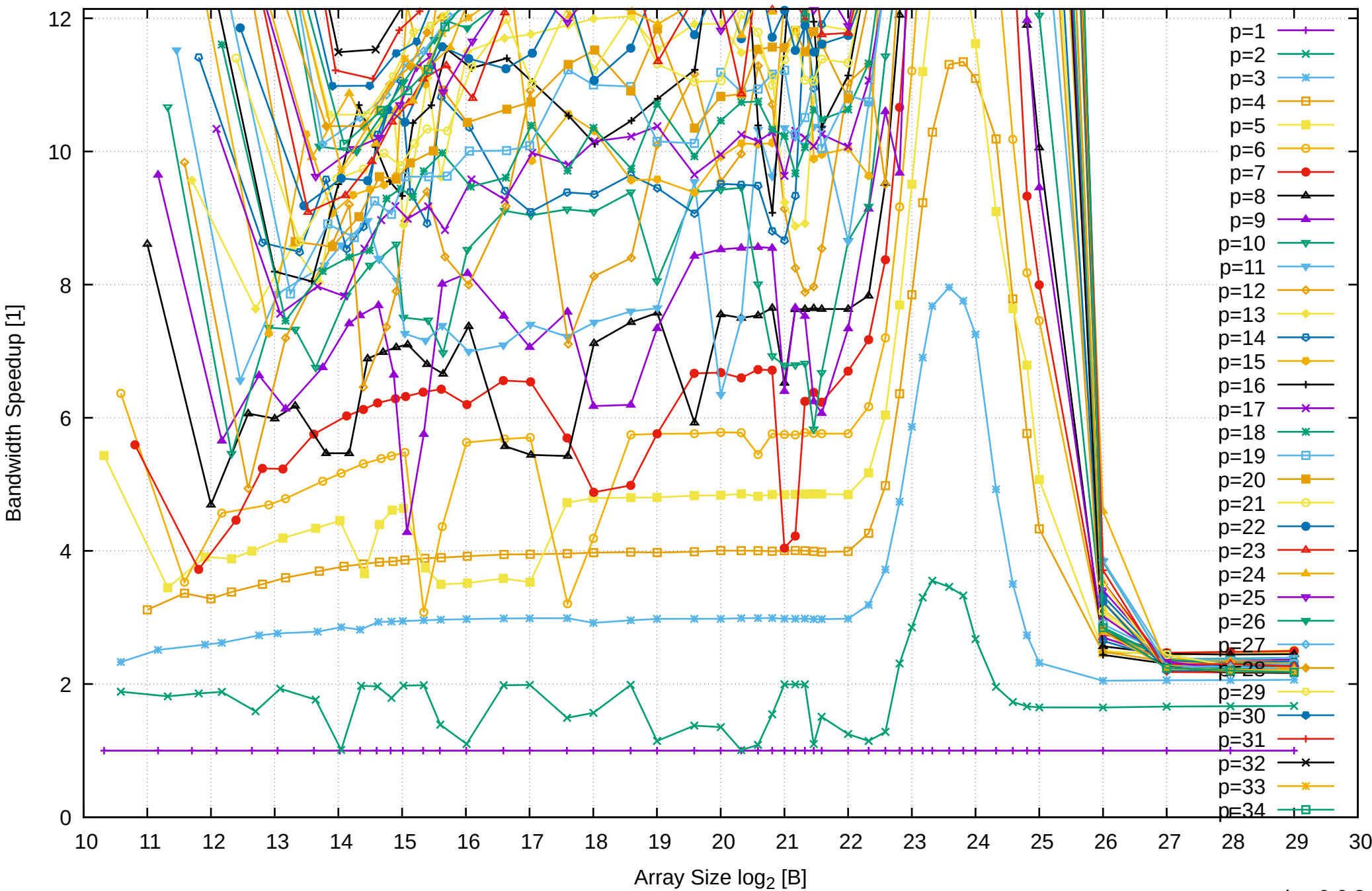
AMD Ryzen Threadripper 2950X 128GB - Parallel Memory Access Time - ScanWrite128PtrSimpleLoop



AMD Ryzen Threadripper 2950X 128GB - Speedup of Parallel Memory Bandwidth - ScanWrite128PtrSimpleLoop

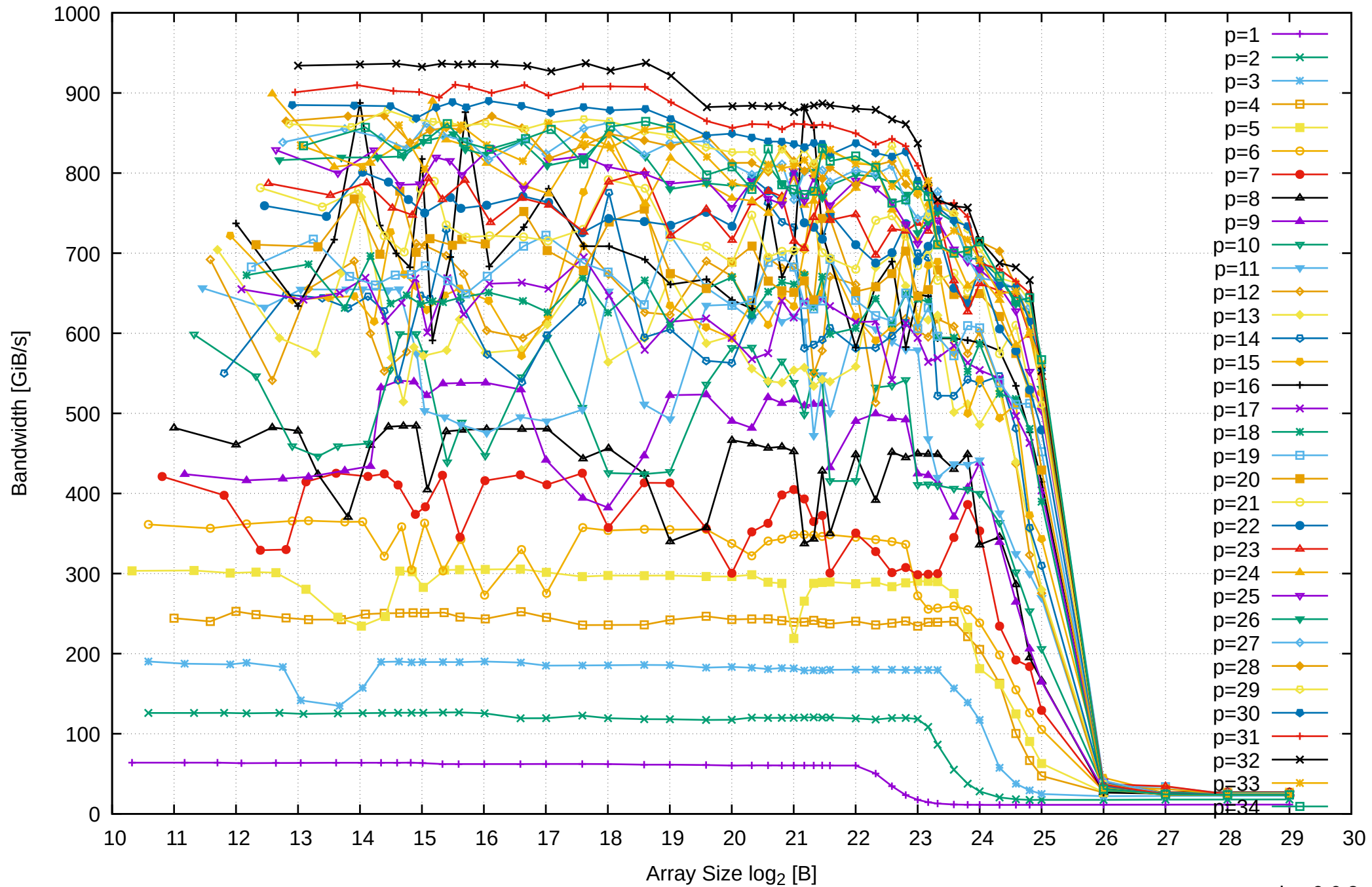


AMD Ryzen Threadripper 2950X 128GB - Speedup of Parallel Memory Bandwidth (enlarged) - ScanWrite128PtrSimpleLoop

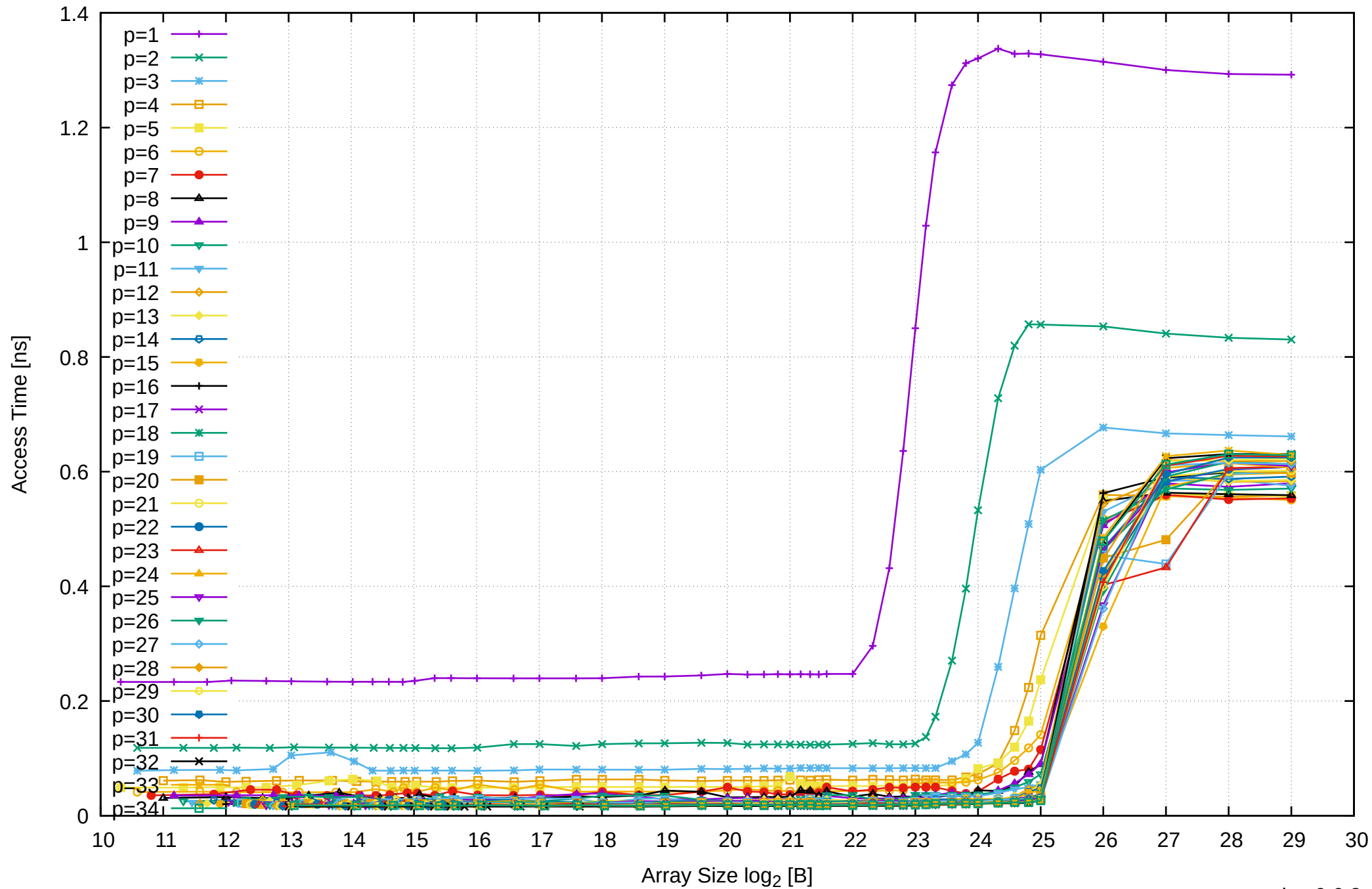




AMD Ryzen Threadripper 2950X 128GB - Parallel Memory Bandwidth - ScanWrite128PtrUnrollLoop

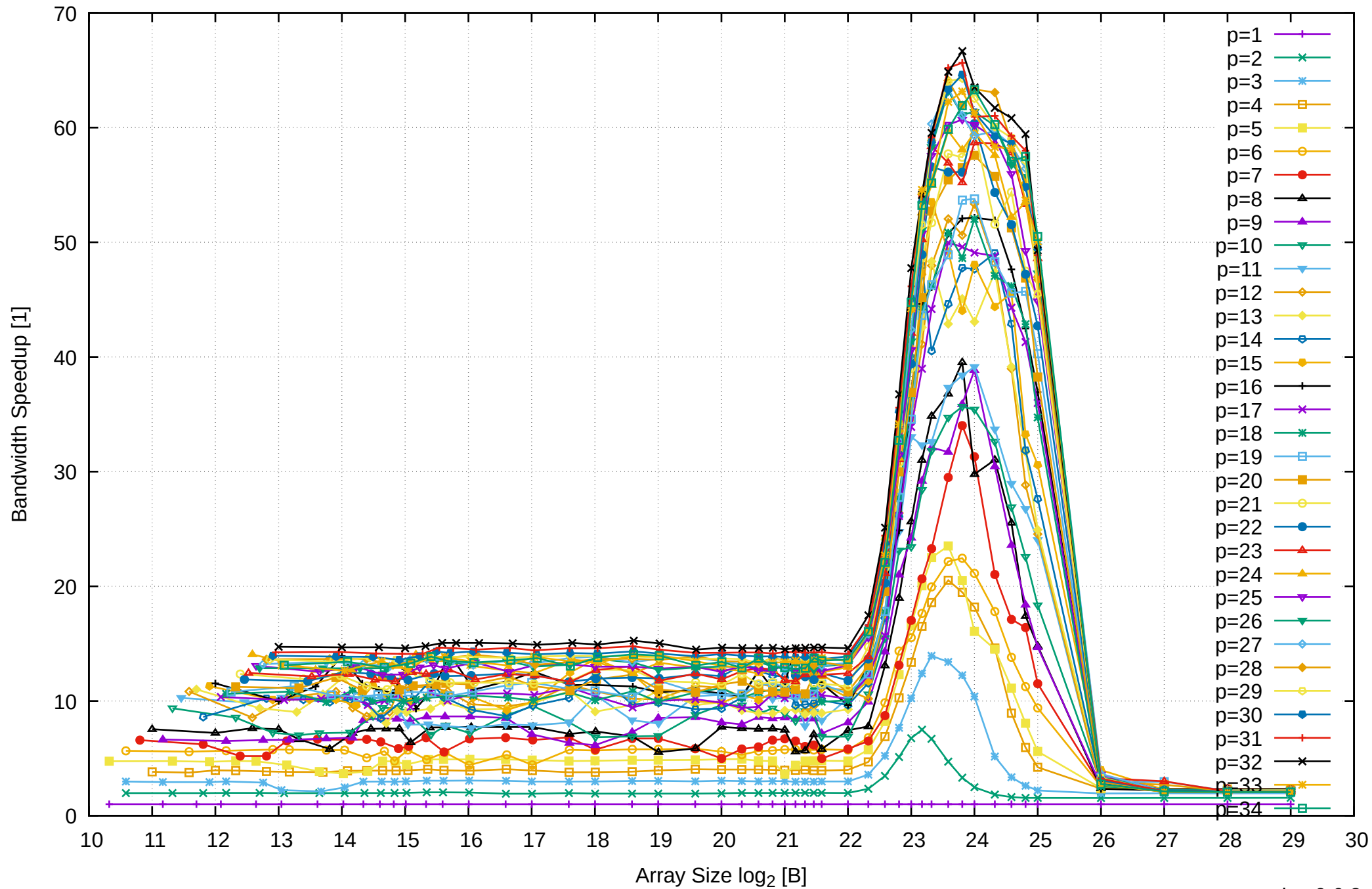


AMD Ryzen Threadripper 2950X 128GB - Parallel Memory Access Time - ScanWrite128PtrUnrollLoop

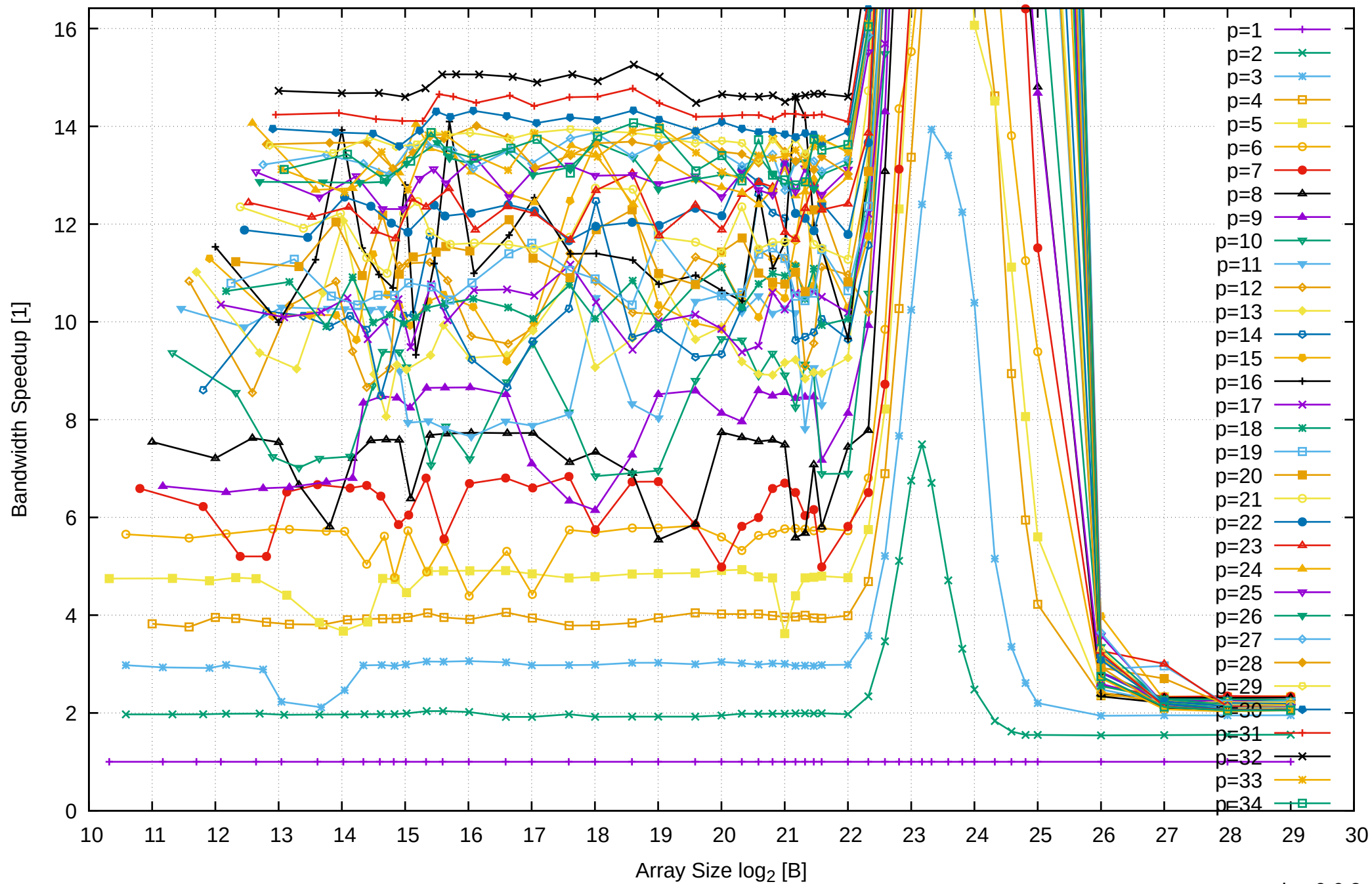




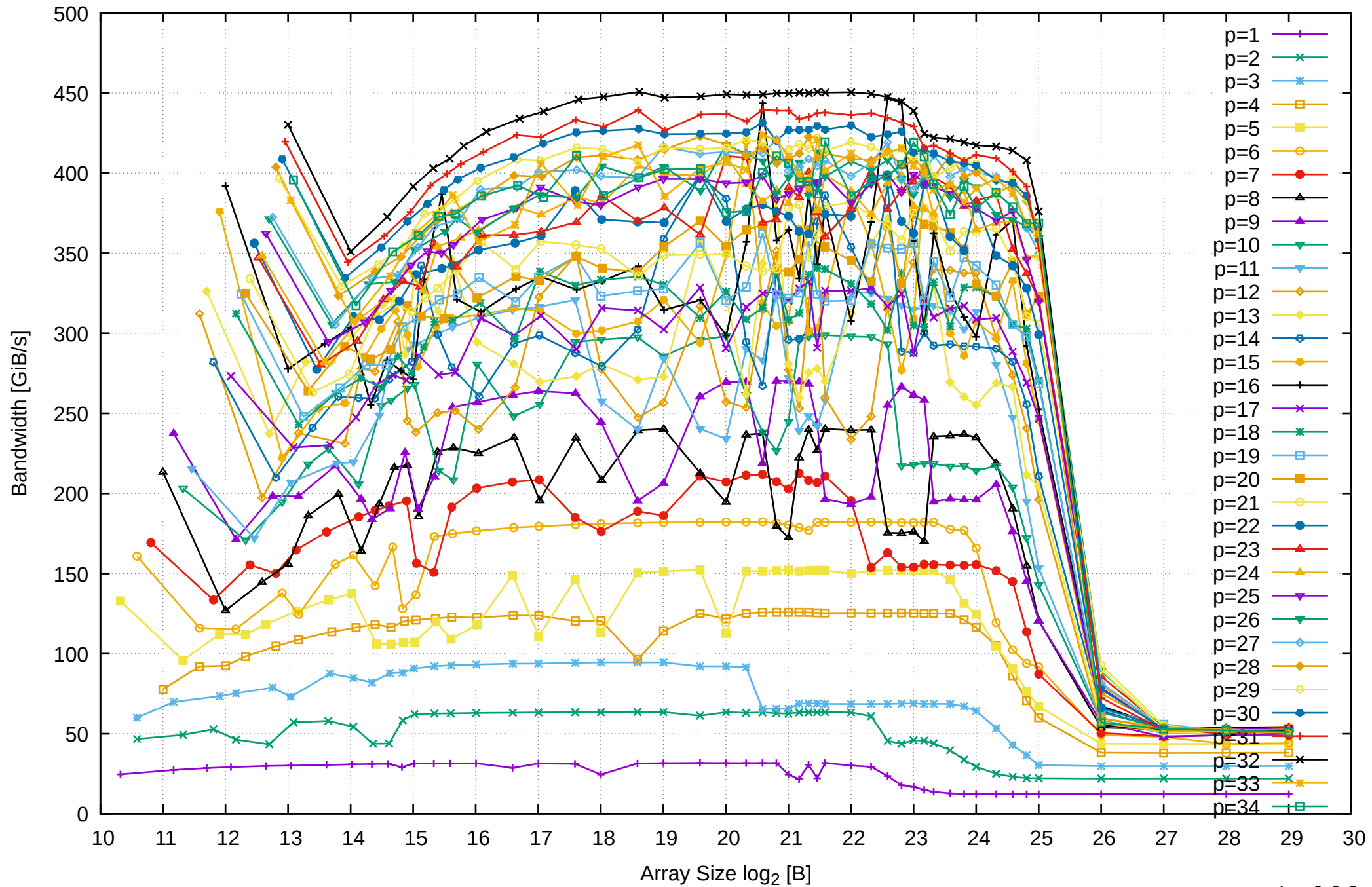
AMD Ryzen Threadripper 2950X 128GB - Speedup of Parallel Memory Bandwidth - ScanWrite128PtrUnrollLoop



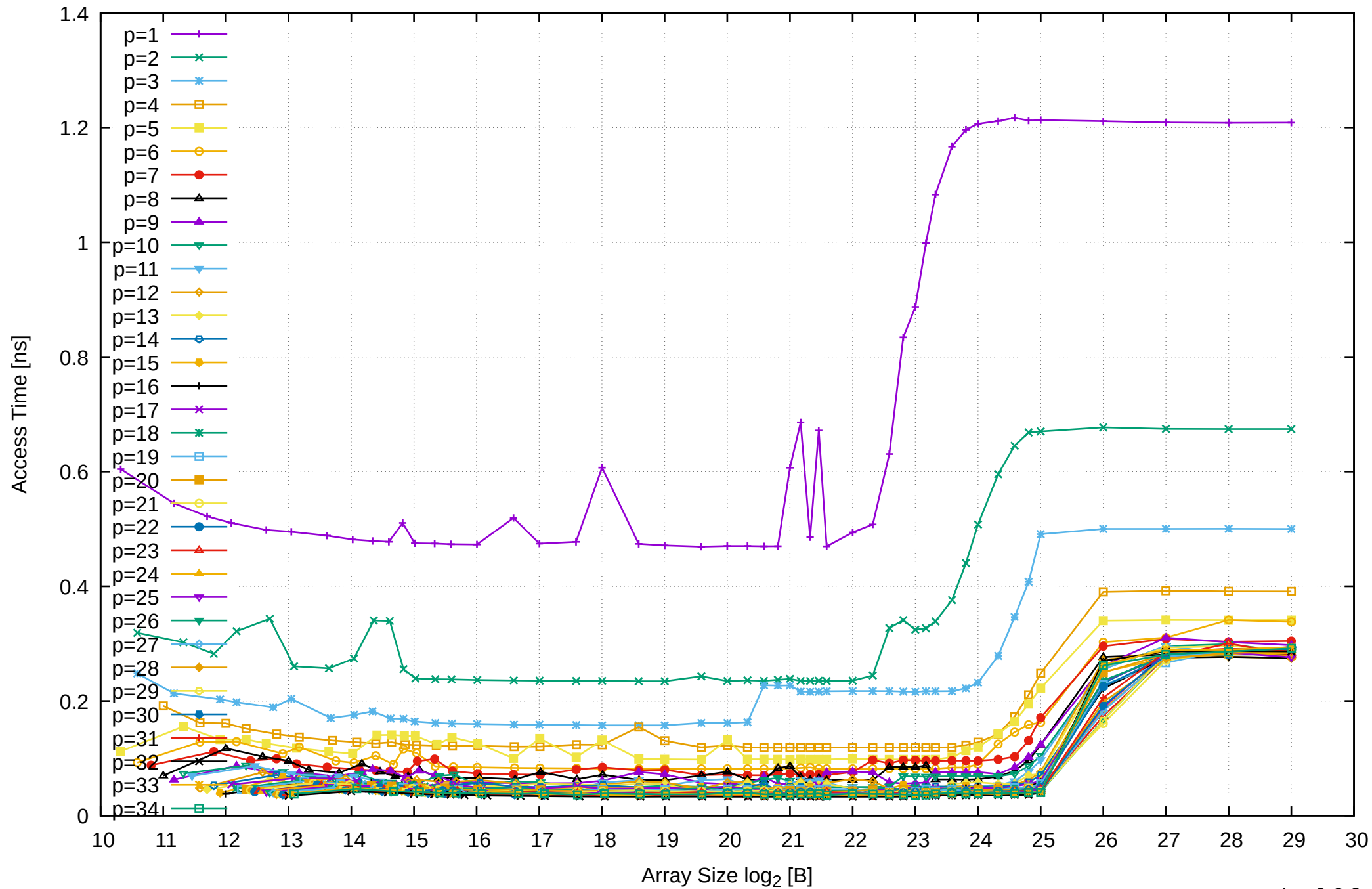
AMD Ryzen Threadripper 2950X 128GB - Speedup of Parallel Memory Bandwidth (enlarged) - ScanWrite128PtrUnrollLoop



AMD Ryzen Threadripper 2950X 128GB - Parallel Memory Bandwidth - ScanRead128PtrSimpleLoop

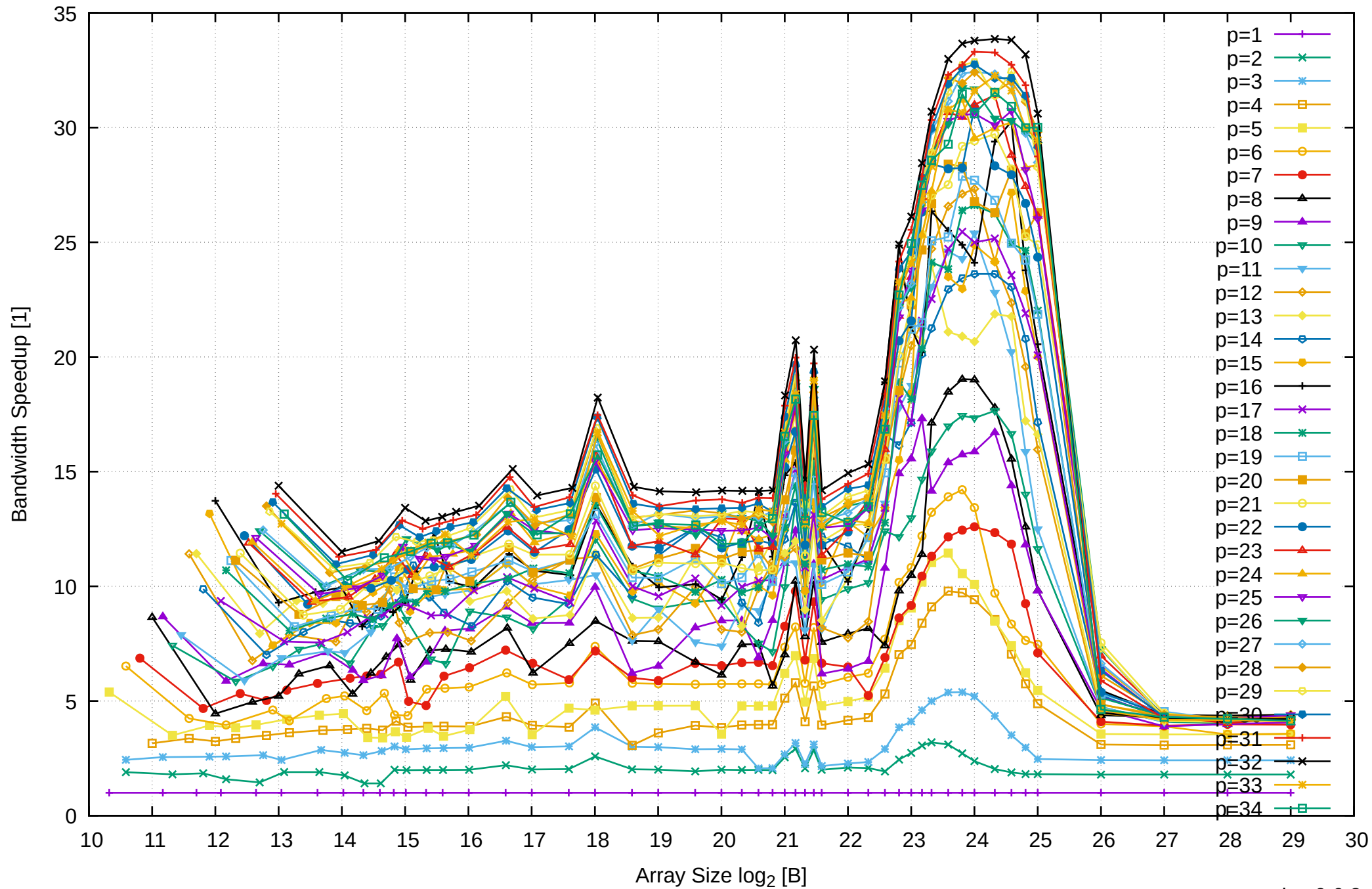


AMD Ryzen Threadripper 2950X 128GB - Parallel Memory Access Time - ScanRead128PtrSimpleLoop



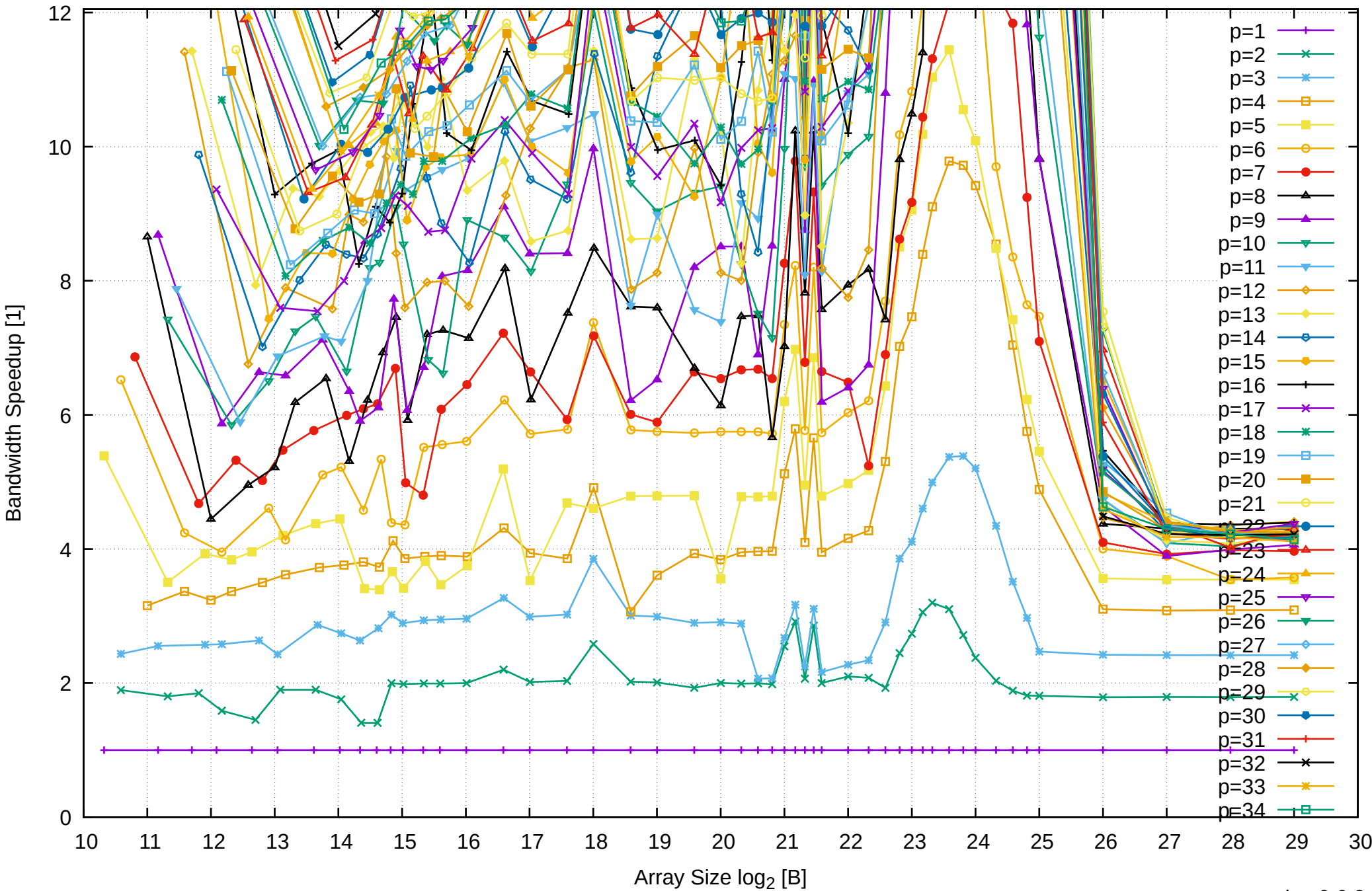


AMD Ryzen Threadripper 2950X 128GB - Speedup of Parallel Memory Bandwidth - ScanRead128PtrSimpleLoop

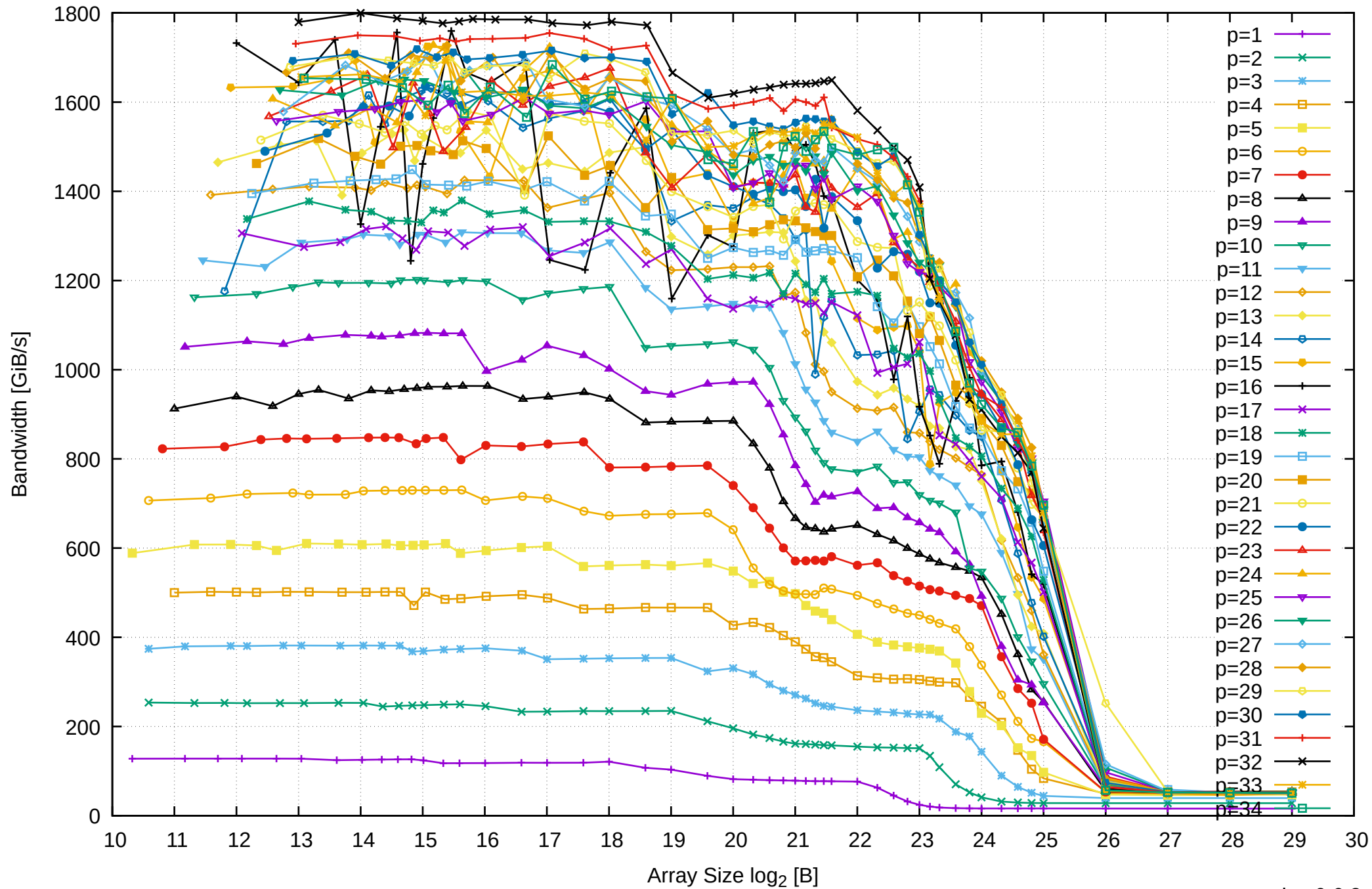




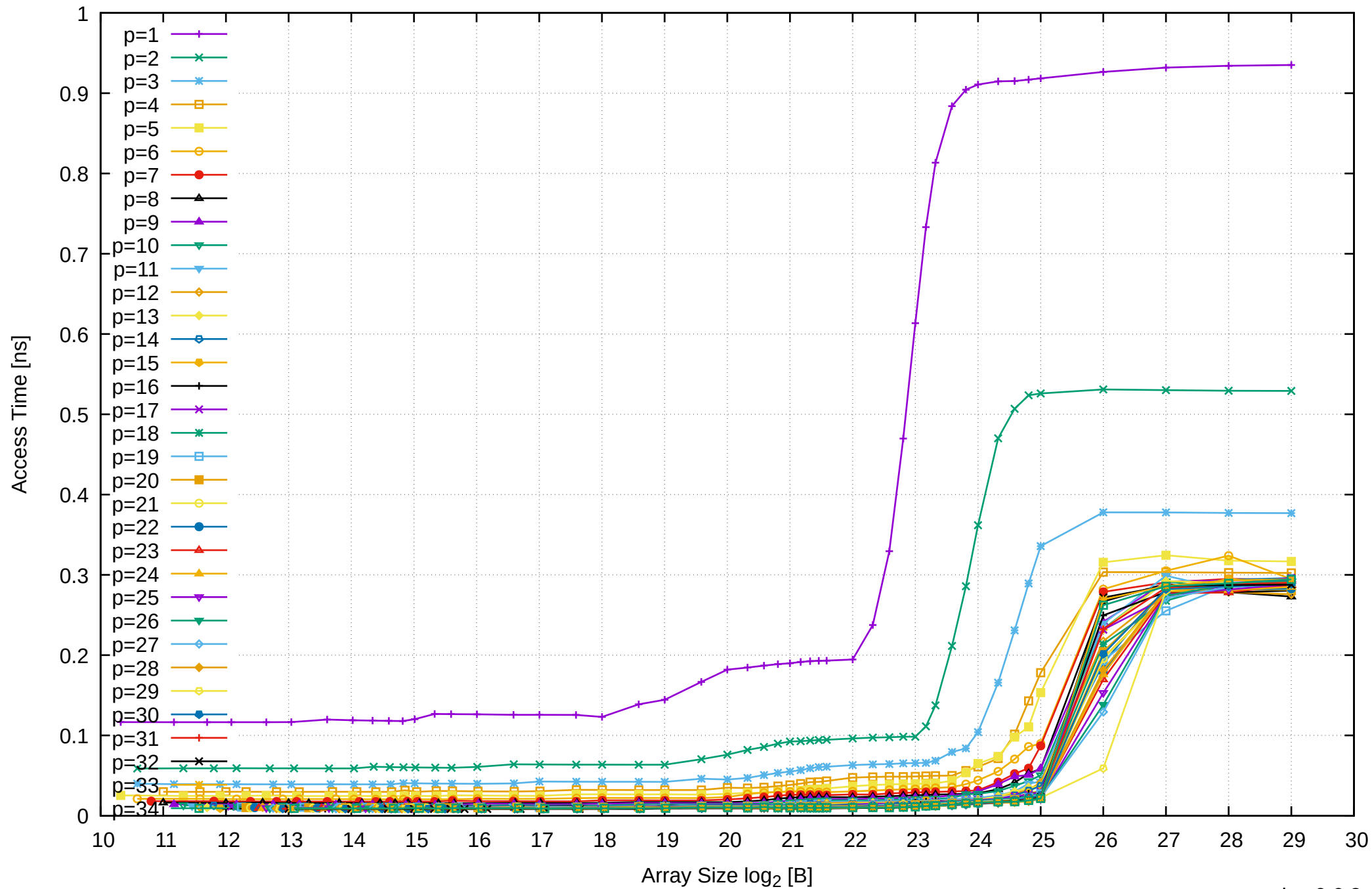
AMD Ryzen Threadripper 2950X 128GB - Speedup of Parallel Memory Bandwidth (enlarged) - ScanRead128PtrSimpleLoop



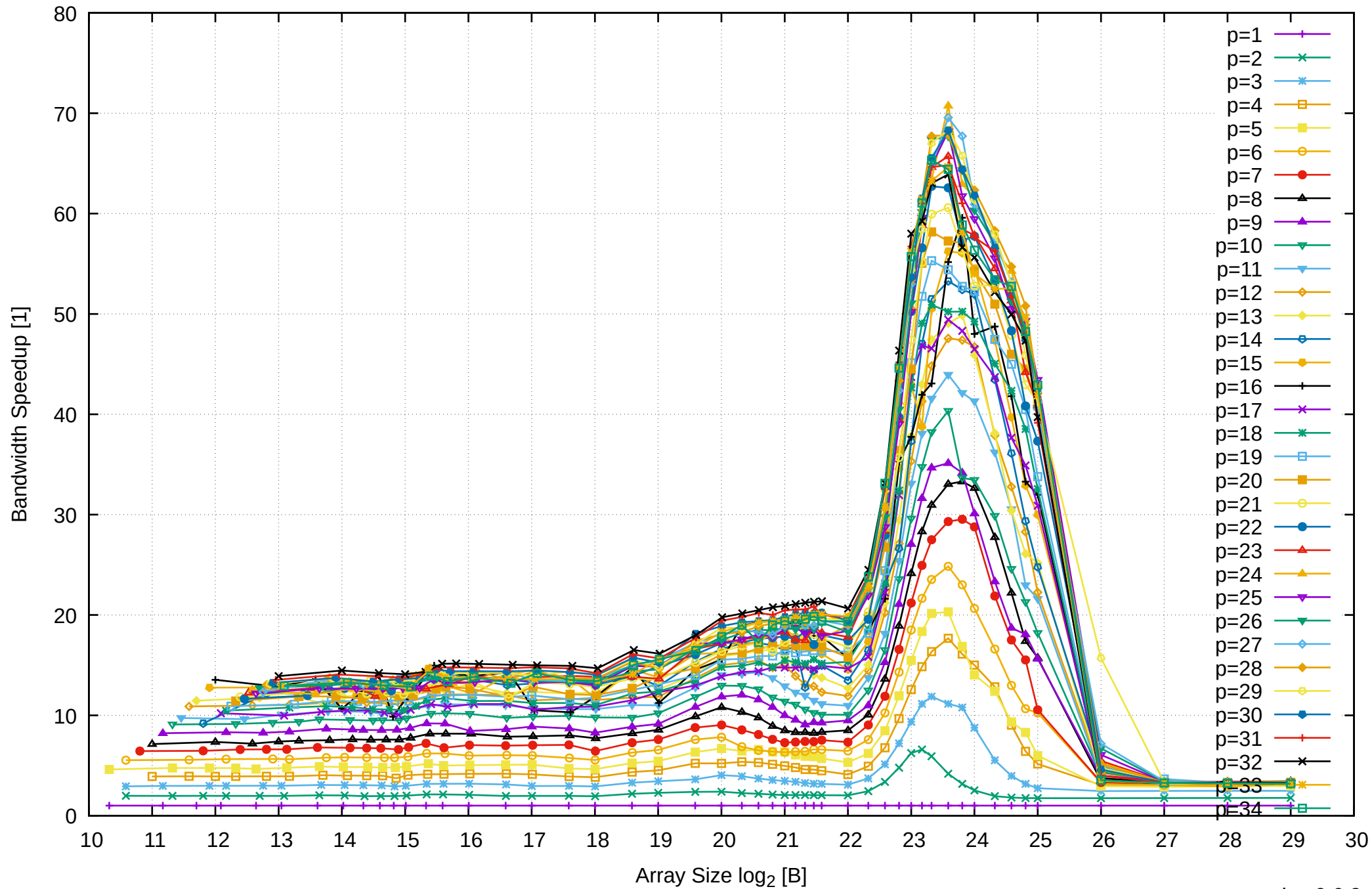
AMD Ryzen Threadripper 2950X 128GB - Parallel Memory Bandwidth - ScanRead128PtrUnrollLoop



AMD Ryzen Threadripper 2950X 128GB - Parallel Memory Access Time - ScanRead128PtrUnrollLoop

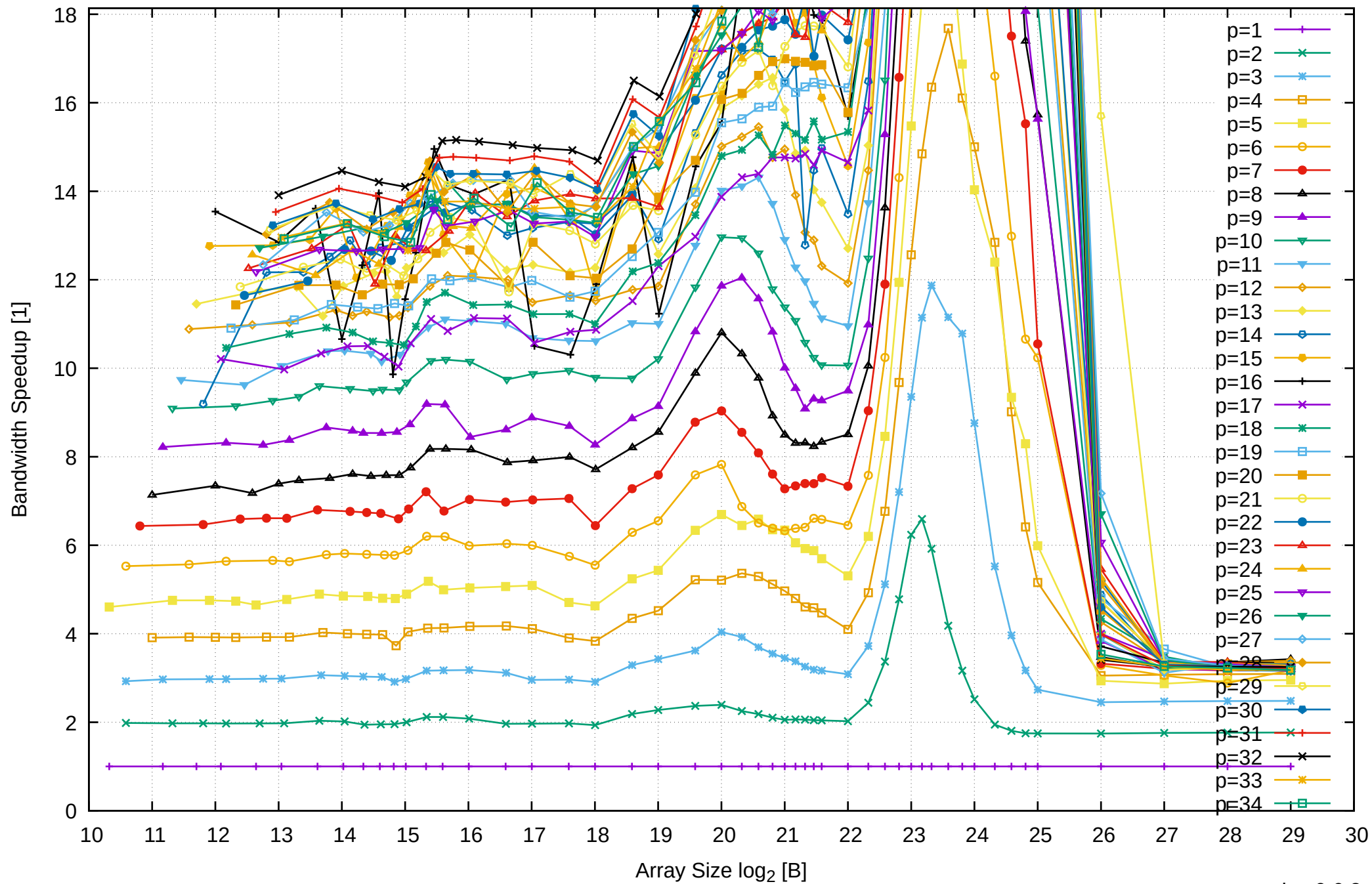


AMD Ryzen Threadripper 2950X 128GB - Speedup of Parallel Memory Bandwidth - ScanRead128PtrUnrollLoop



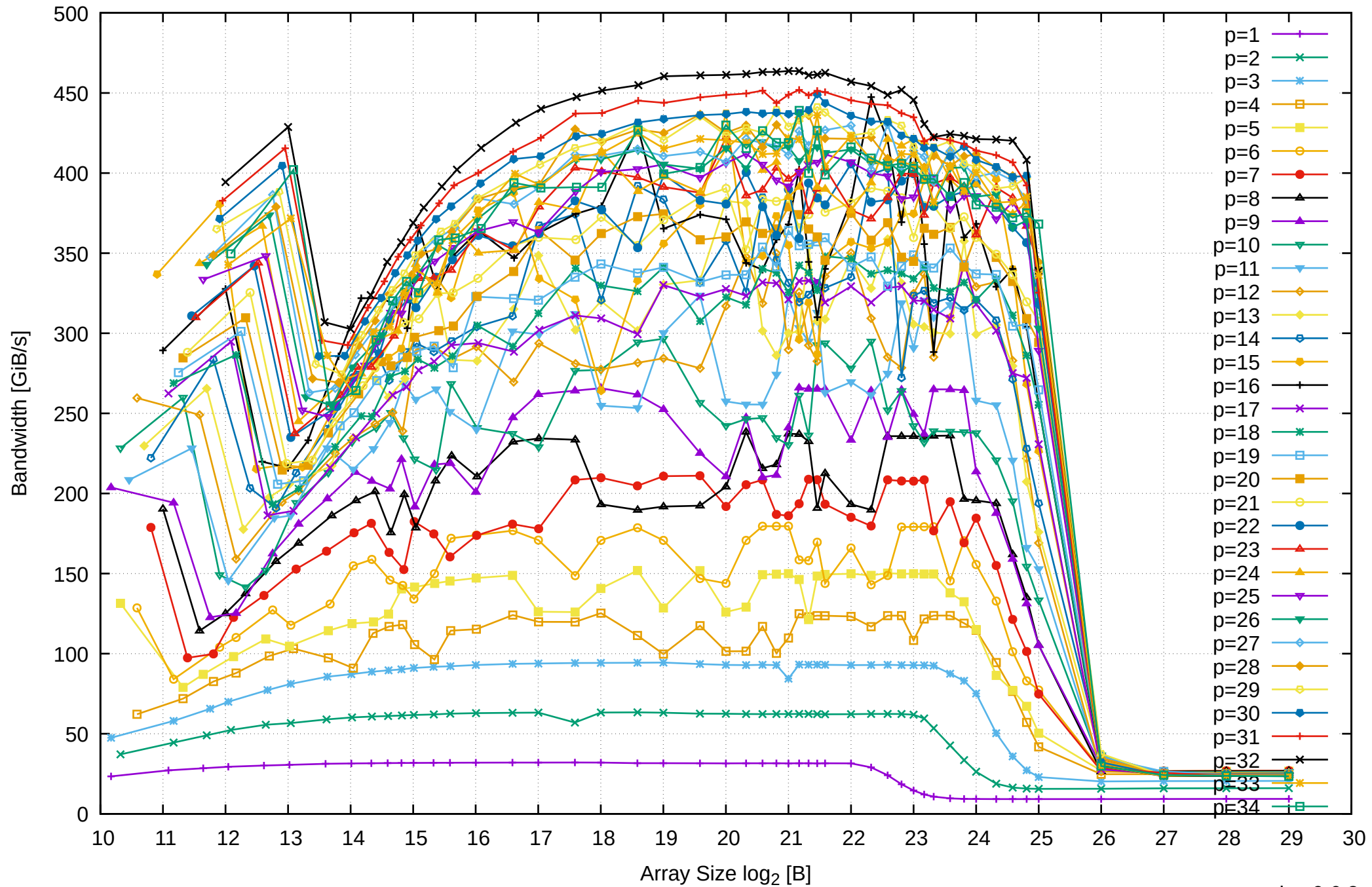


AMD Ryzen Threadripper 2950X 128GB - Speedup of Parallel Memory Bandwidth (enlarged) - ScanRead128PtrUnrollLoop

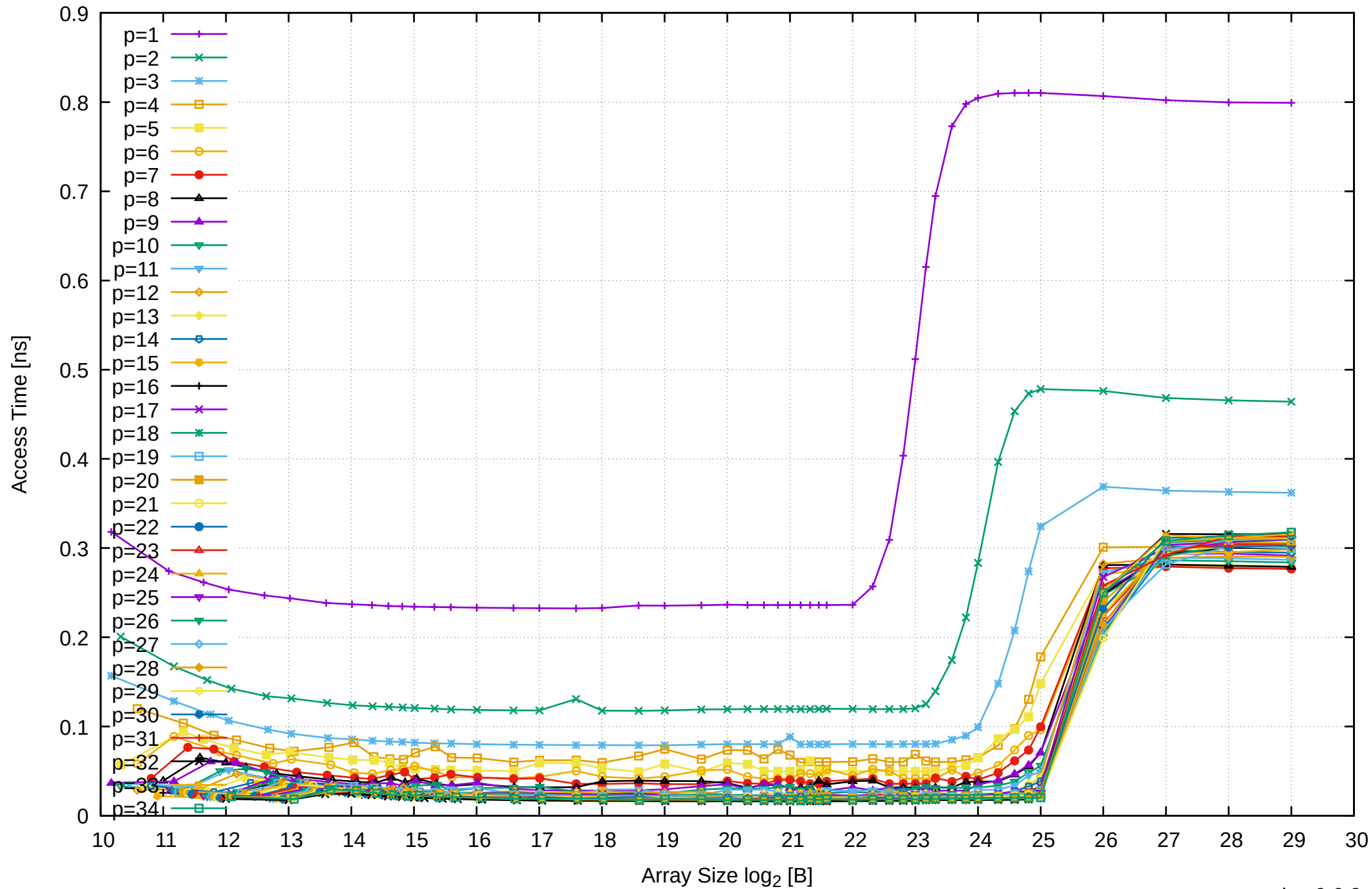




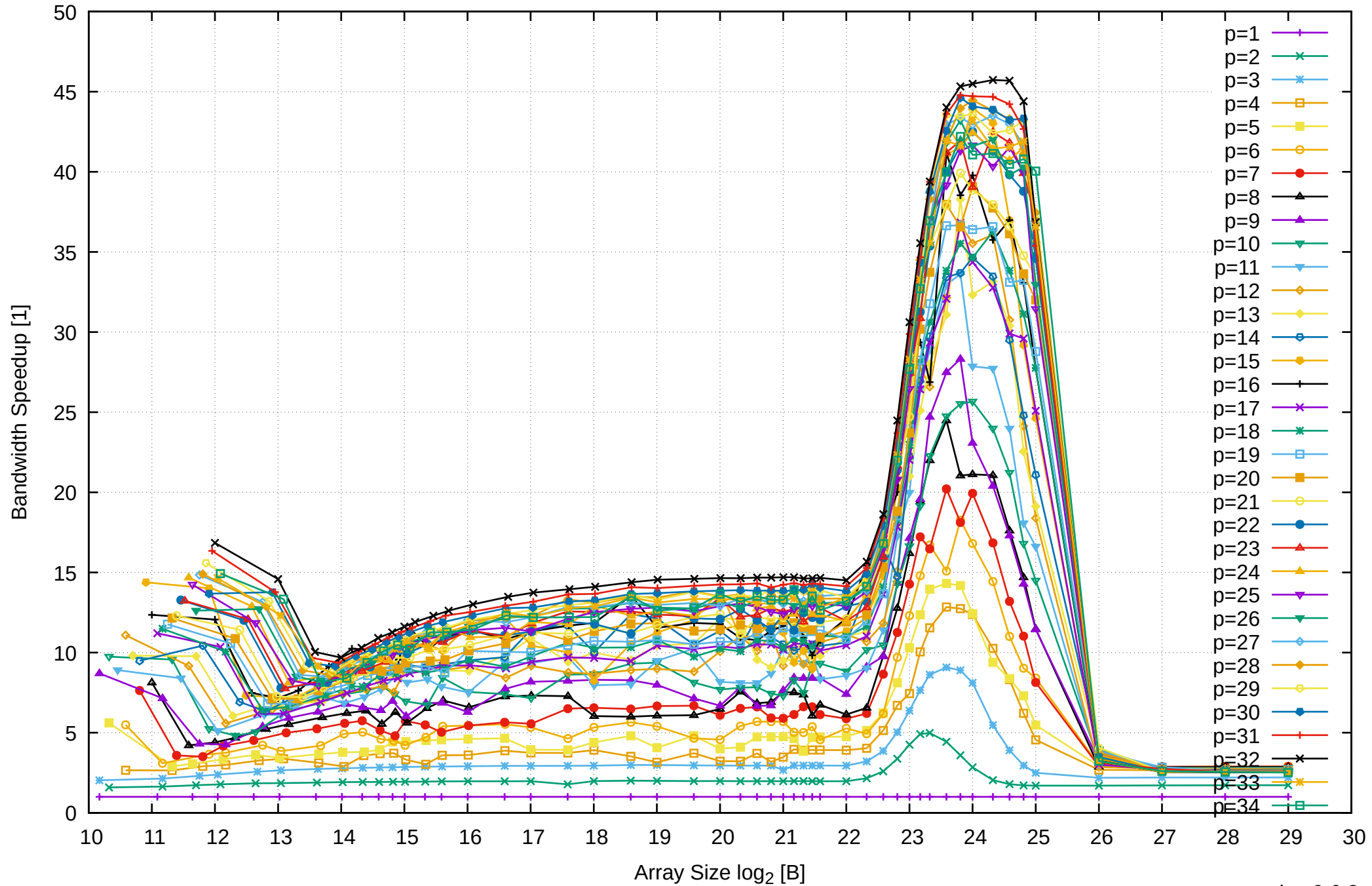
AMD Ryzen Threadripper 2950X 128GB - Parallel Memory Bandwidth - ScanWrite64PtrSimpleLoop



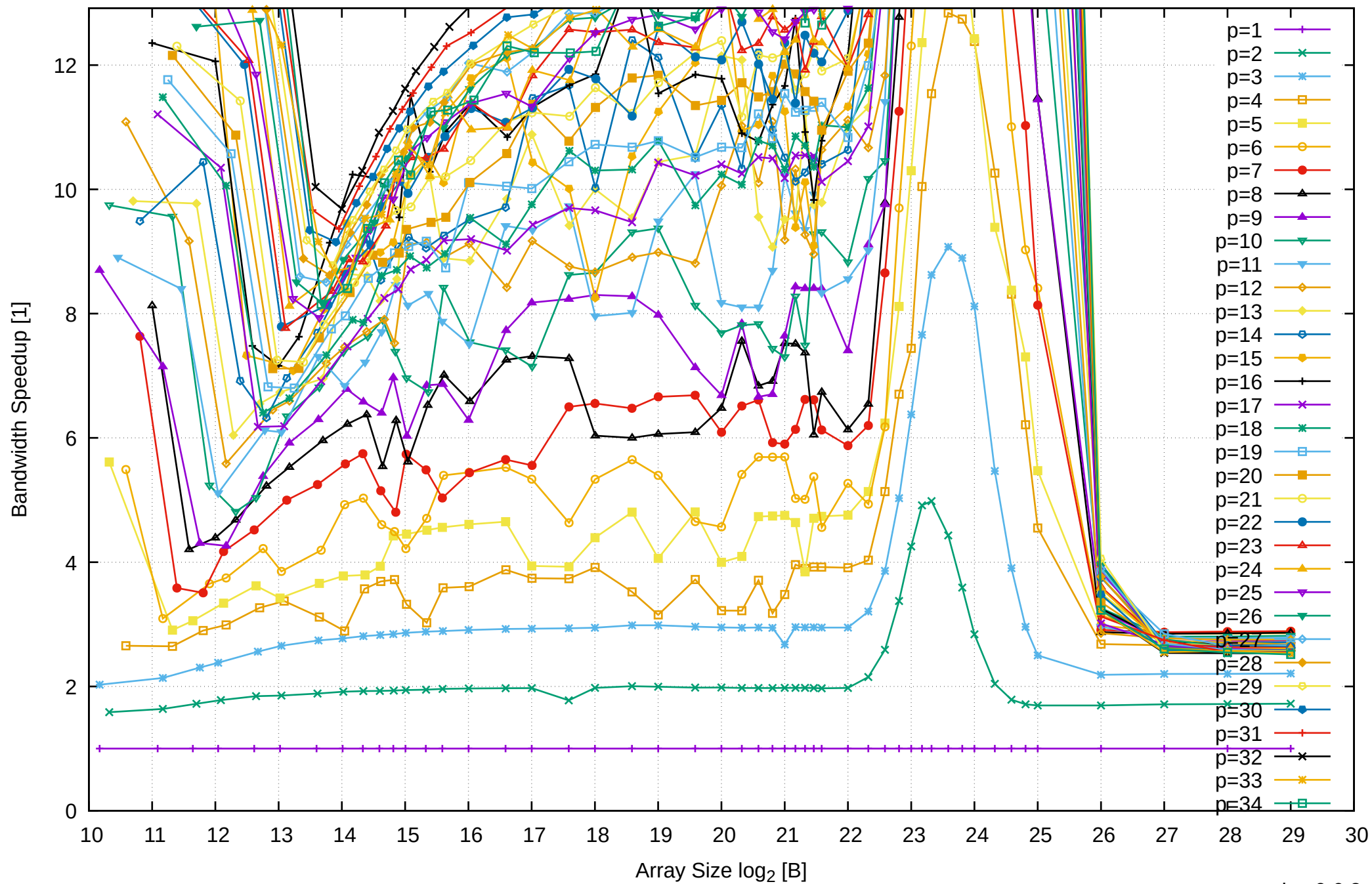
AMD Ryzen Threadripper 2950X 128GB - Parallel Memory Access Time - ScanWrite64PtrSimpleLoop



AMD Ryzen Threadripper 2950X 128GB - Speedup of Parallel Memory Bandwidth - ScanWrite64PtrSimpleLoop

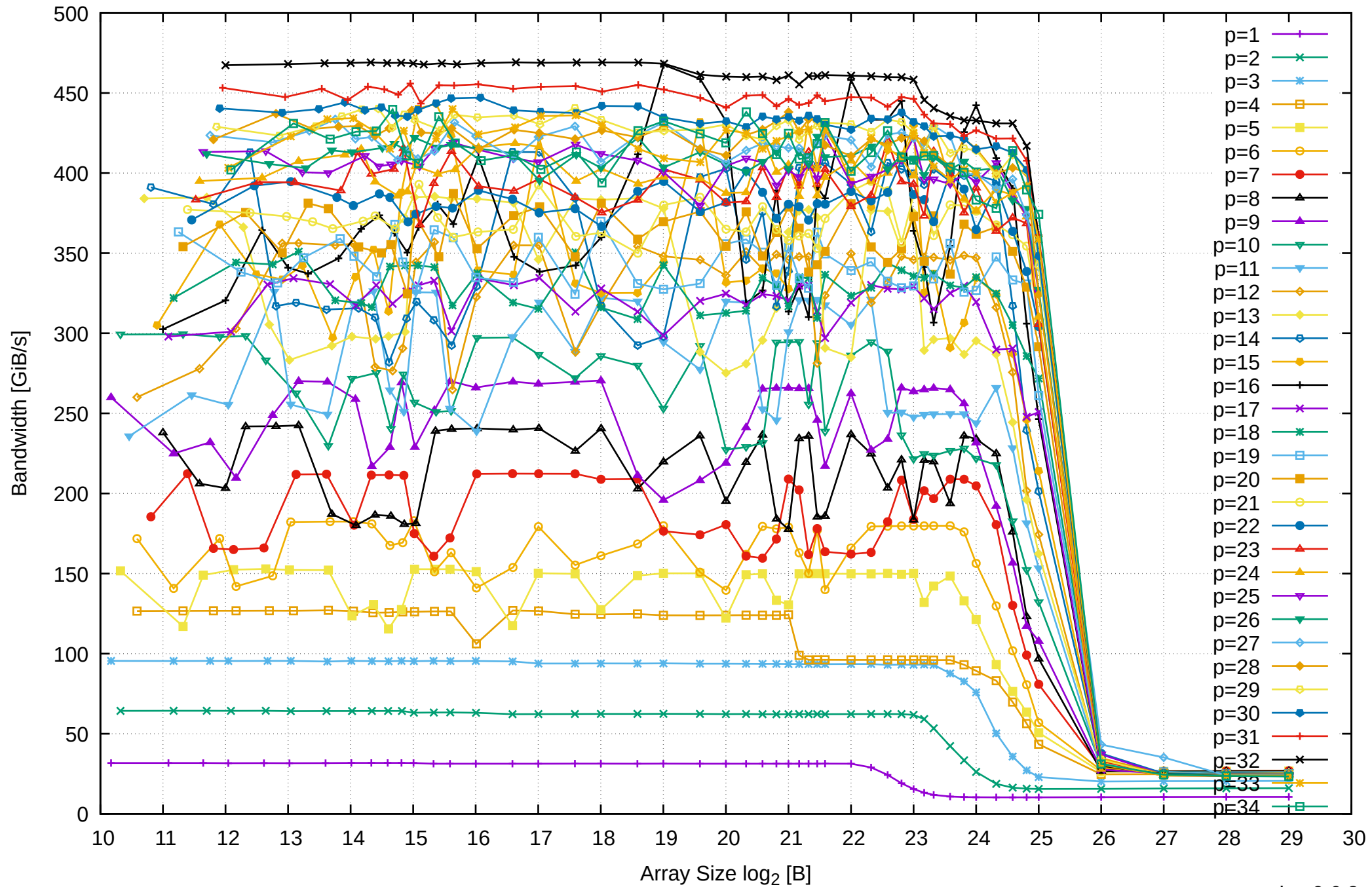


AMD Ryzen Threadripper 2950X 128GB - Speedup of Parallel Memory Bandwidth (enlarged) - ScanWrite64PtrSimpleLoop



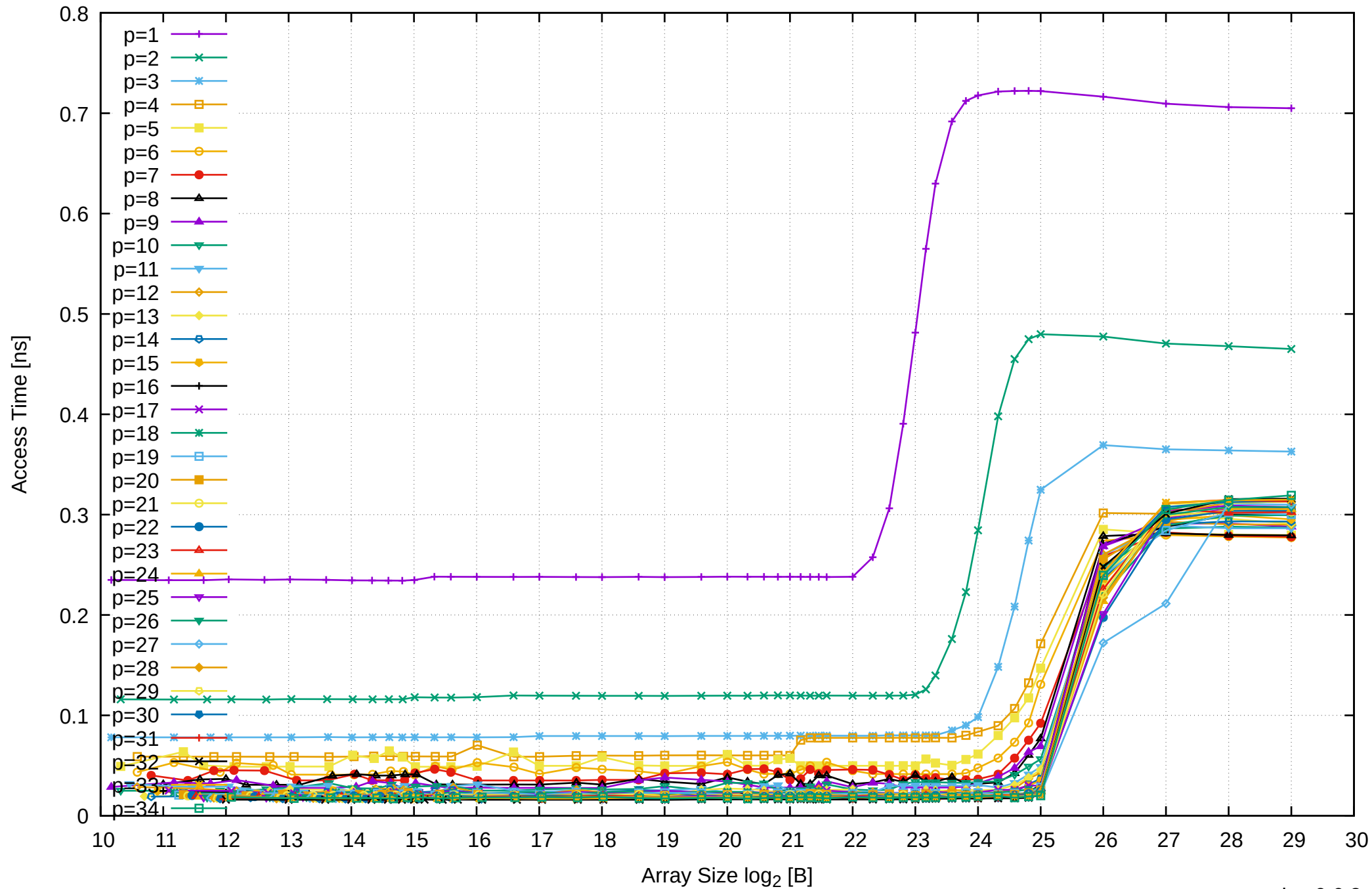


AMD Ryzen Threadripper 2950X 128GB - Parallel Memory Bandwidth - ScanWrite64PtrUnrollLoop

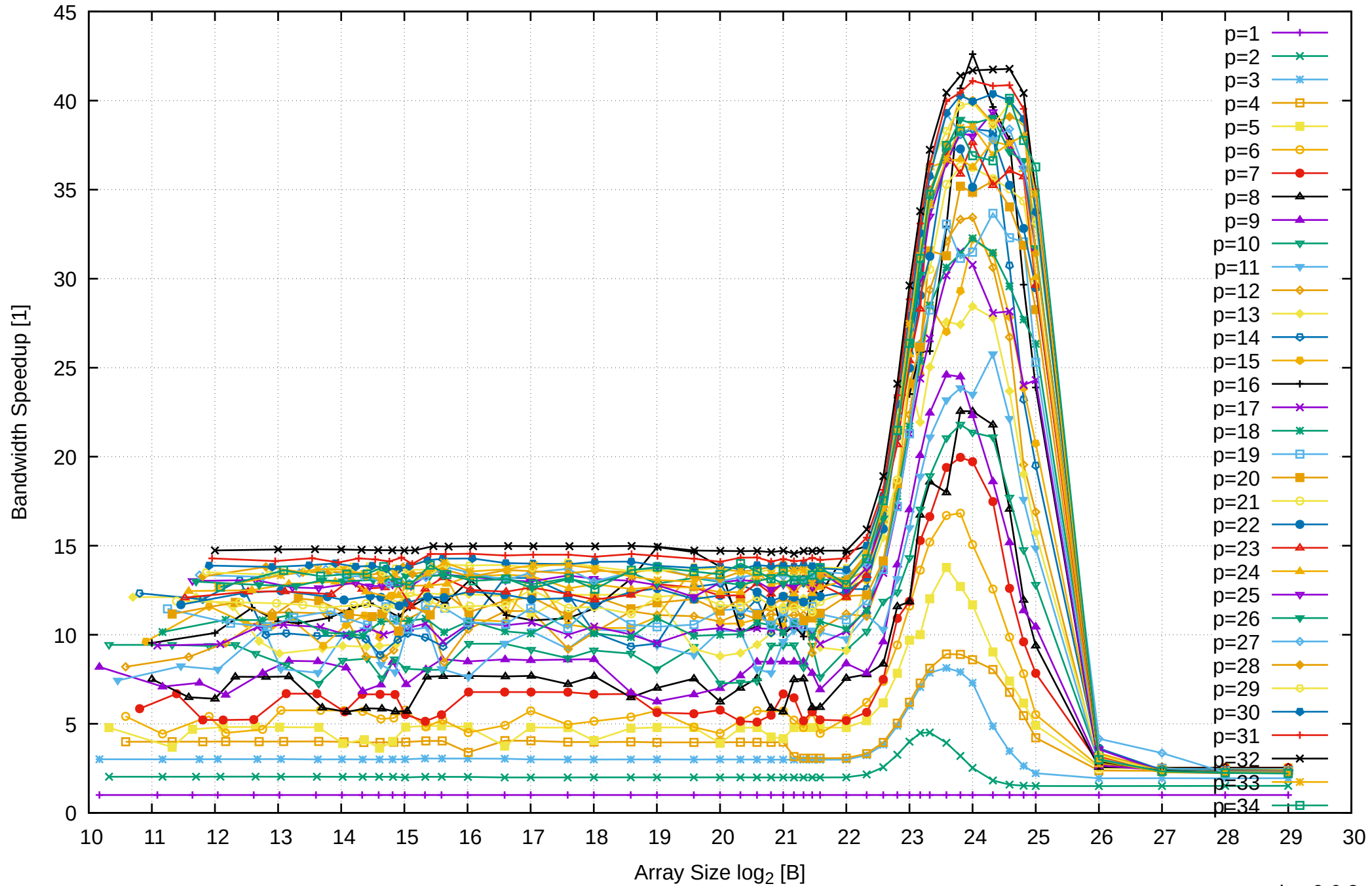




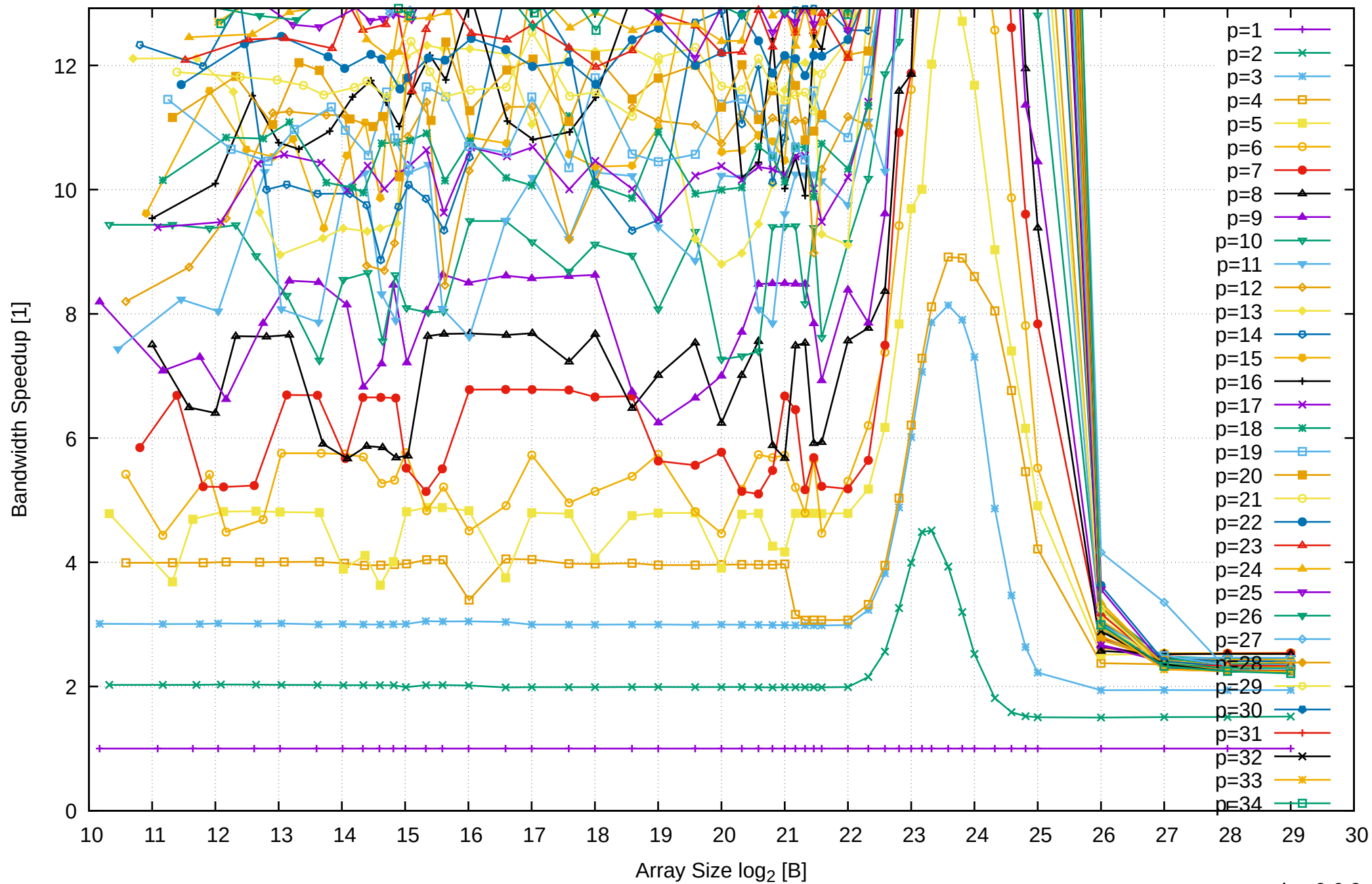
AMD Ryzen Threadripper 2950X 128GB - Parallel Memory Access Time - ScanWrite64PtrUnrollLoop



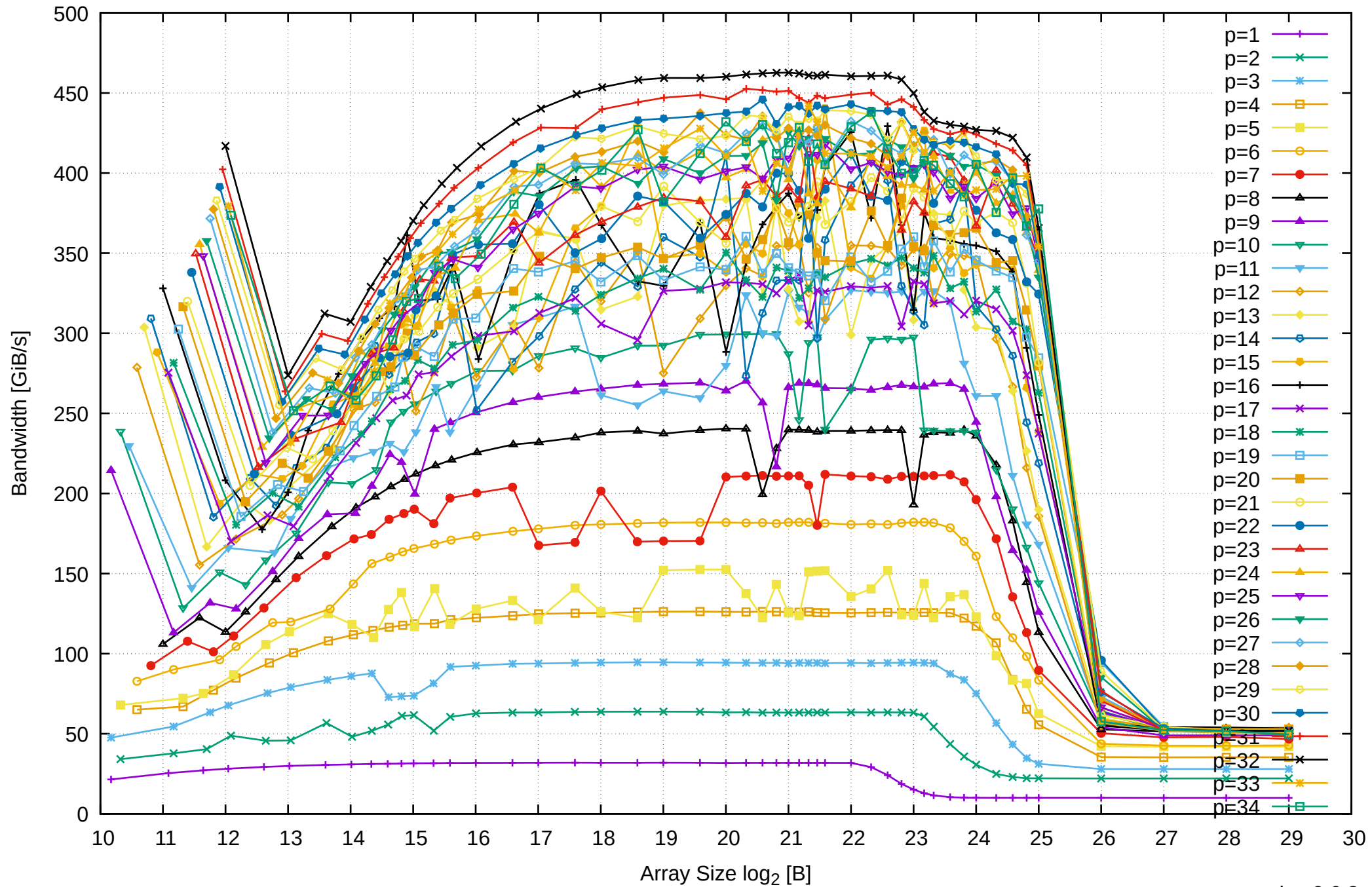
AMD Ryzen Threadripper 2950X 128GB - Speedup of Parallel Memory Bandwidth - ScanWrite64PtrUnrollLoop



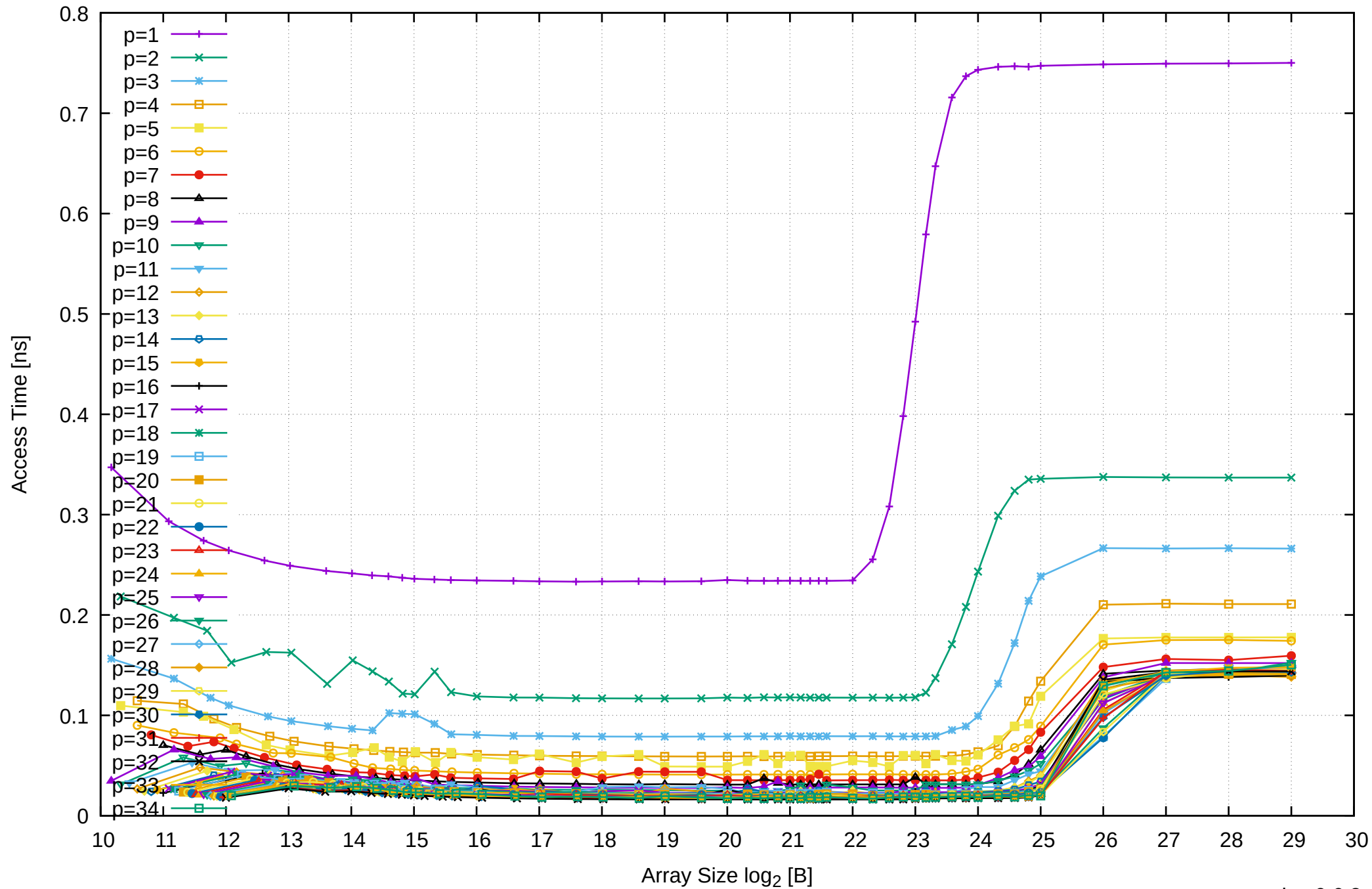
AMD Ryzen Threadripper 2950X 128GB - Speedup of Parallel Memory Bandwidth (enlarged) - ScanWrite64PtrUnrollLoop



AMD Ryzen Threadripper 2950X 128GB - Parallel Memory Bandwidth - ScanRead64PtrSimpleLoop

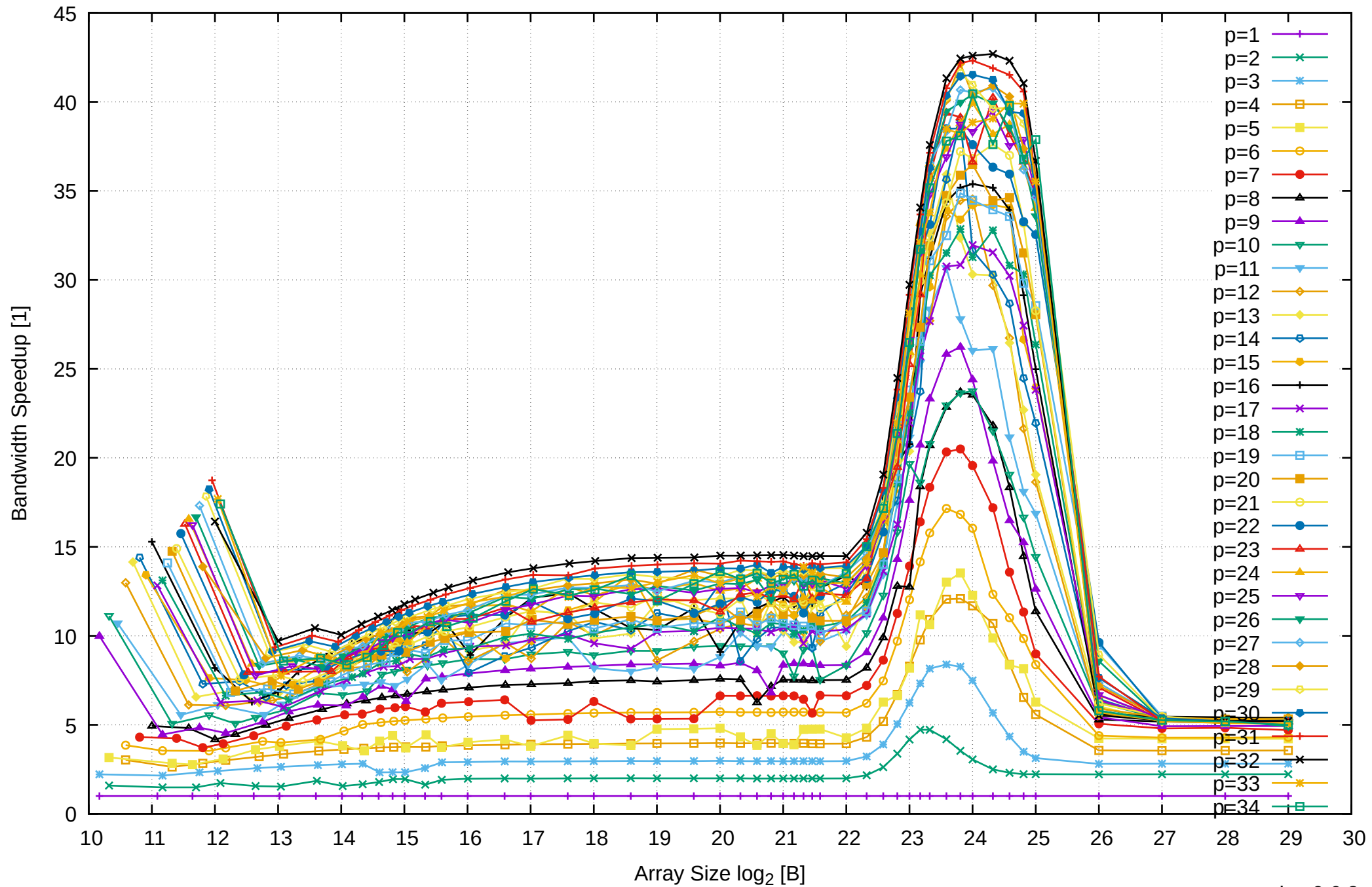


AMD Ryzen Threadripper 2950X 128GB - Parallel Memory Access Time - ScanRead64PtrSimpleLoop

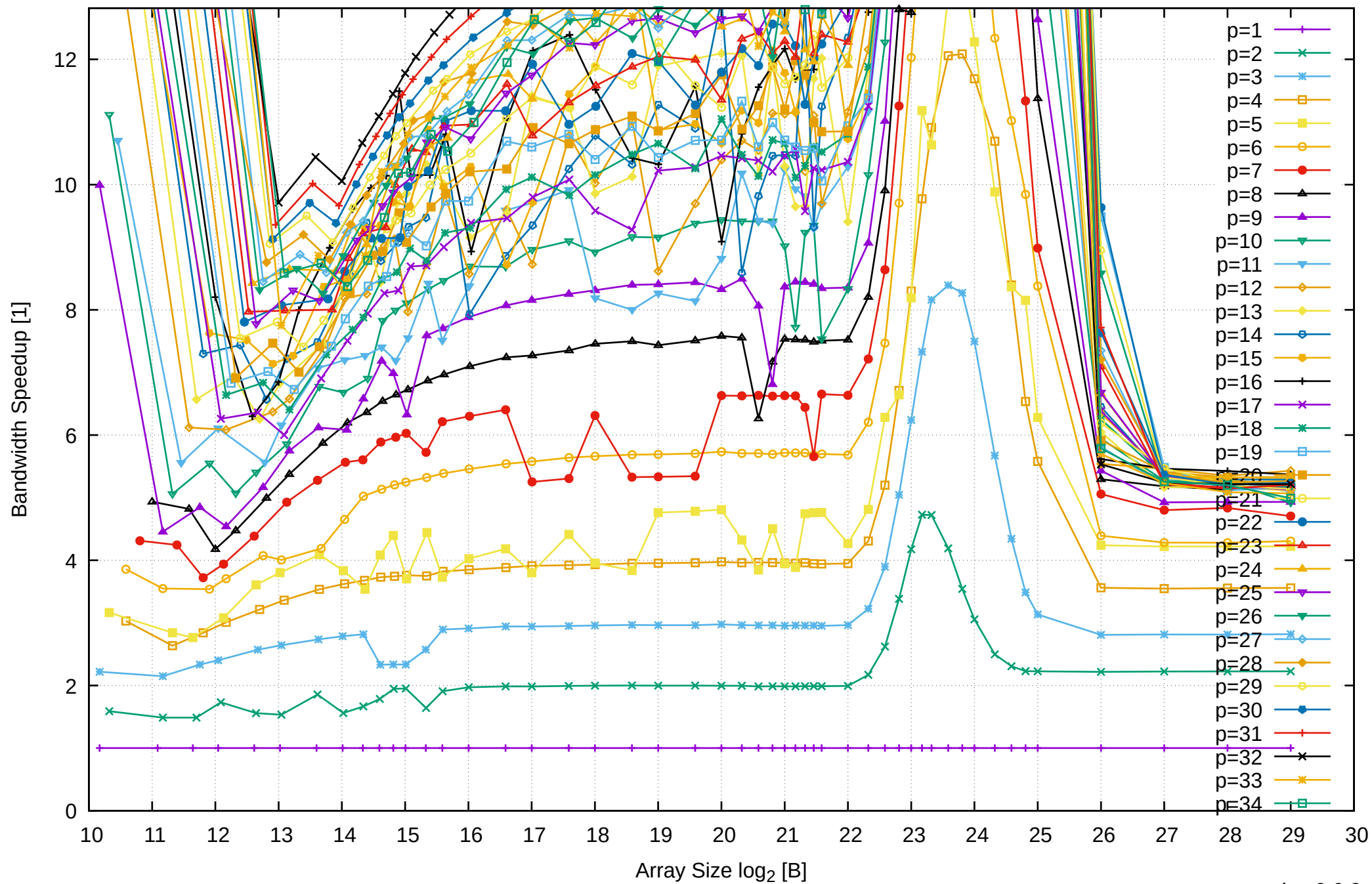




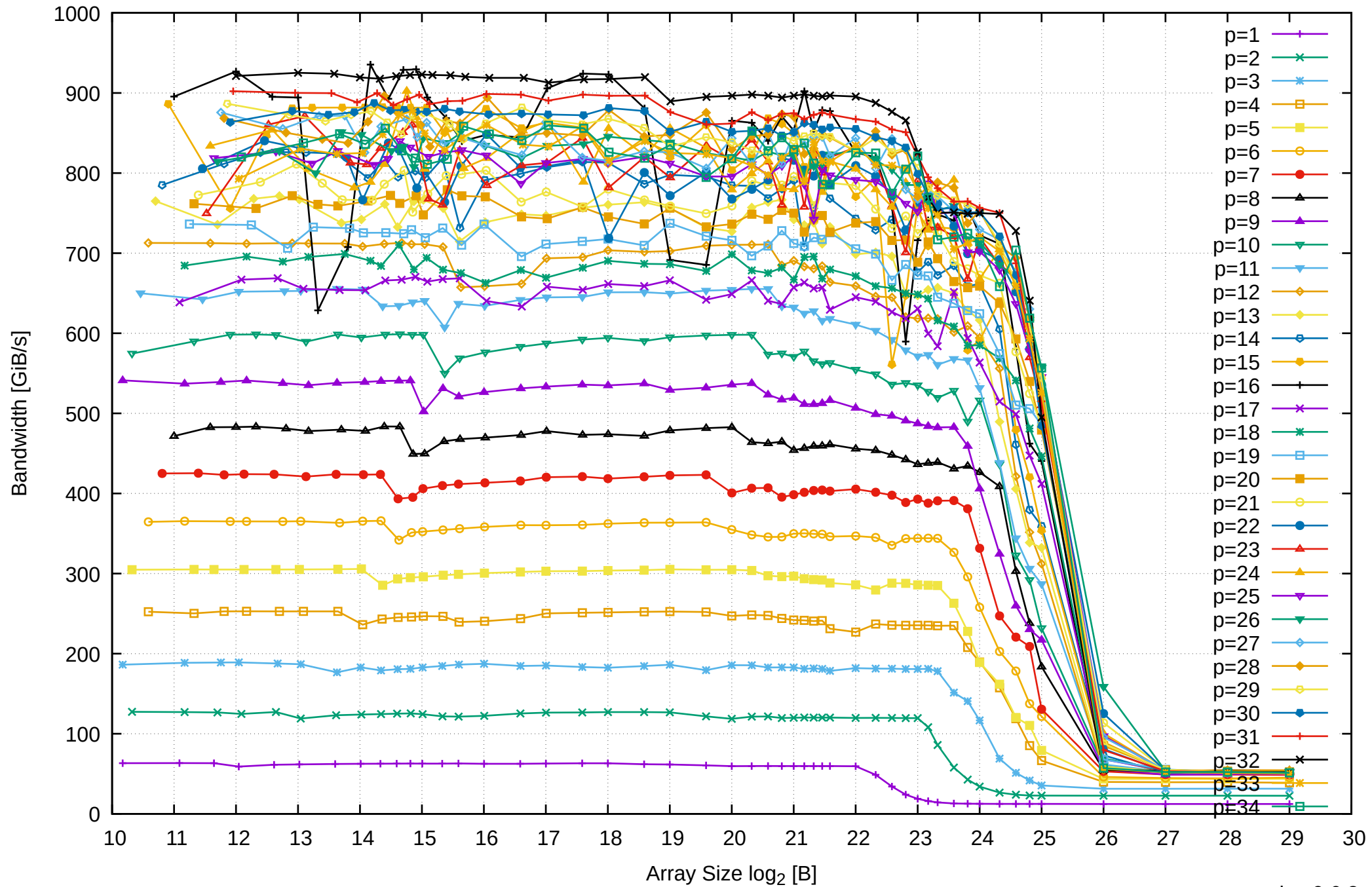
AMD Ryzen Threadripper 2950X 128GB - Speedup of Parallel Memory Bandwidth - ScanRead64PtrSimpleLoop



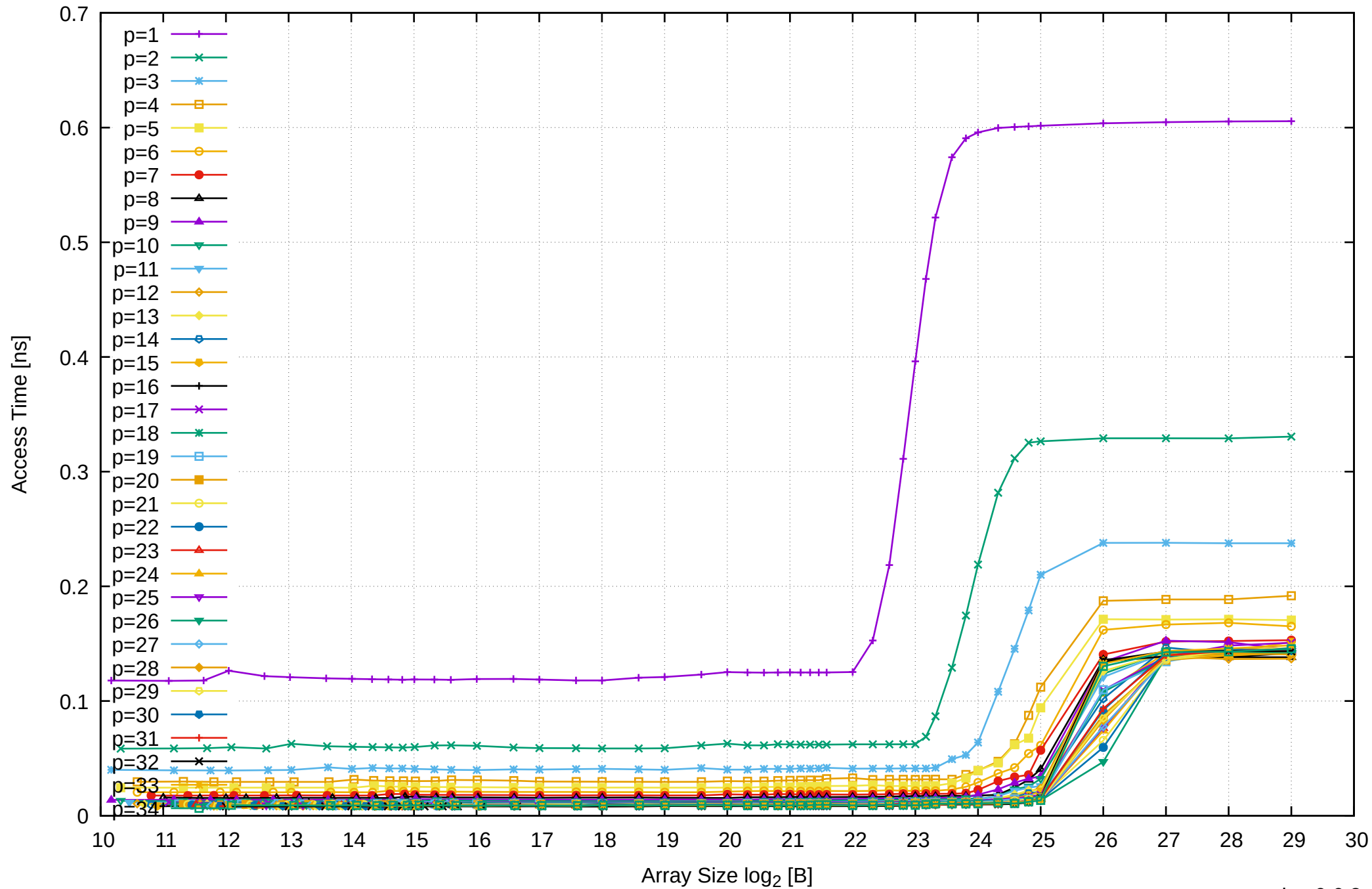
AMD Ryzen Threadripper 2950X 128GB - Speedup of Parallel Memory Bandwidth (enlarged) - ScanRead64PtrSimpleLoop



AMD Ryzen Threadripper 2950X 128GB - Parallel Memory Bandwidth - ScanRead64PtrUnrollLoop

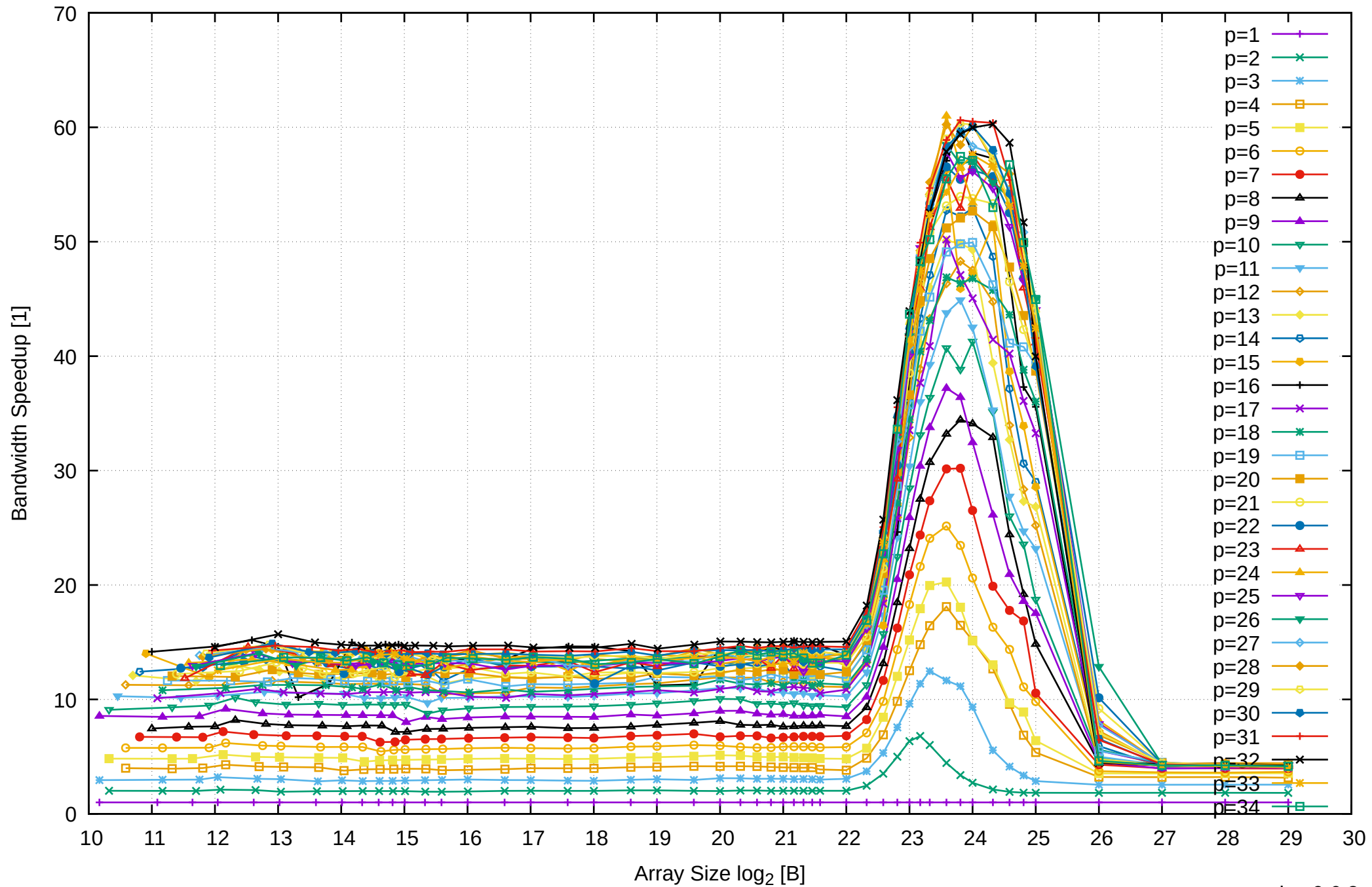


AMD Ryzen Threadripper 2950X 128GB - Parallel Memory Access Time - ScanRead64PtrUnrollLoop



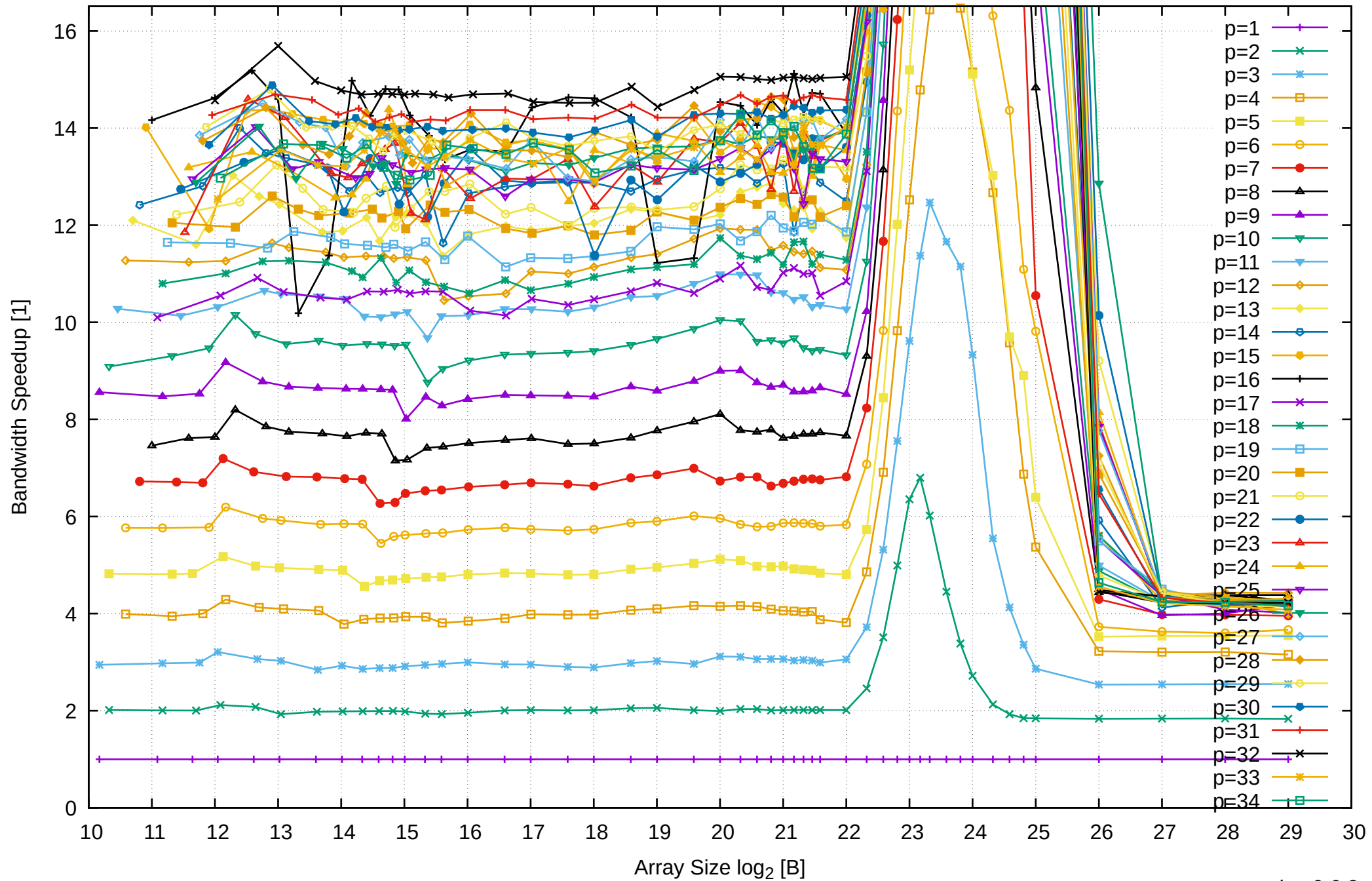


AMD Ryzen Threadripper 2950X 128GB - Speedup of Parallel Memory Bandwidth - ScanRead64PtrUnrollLoop

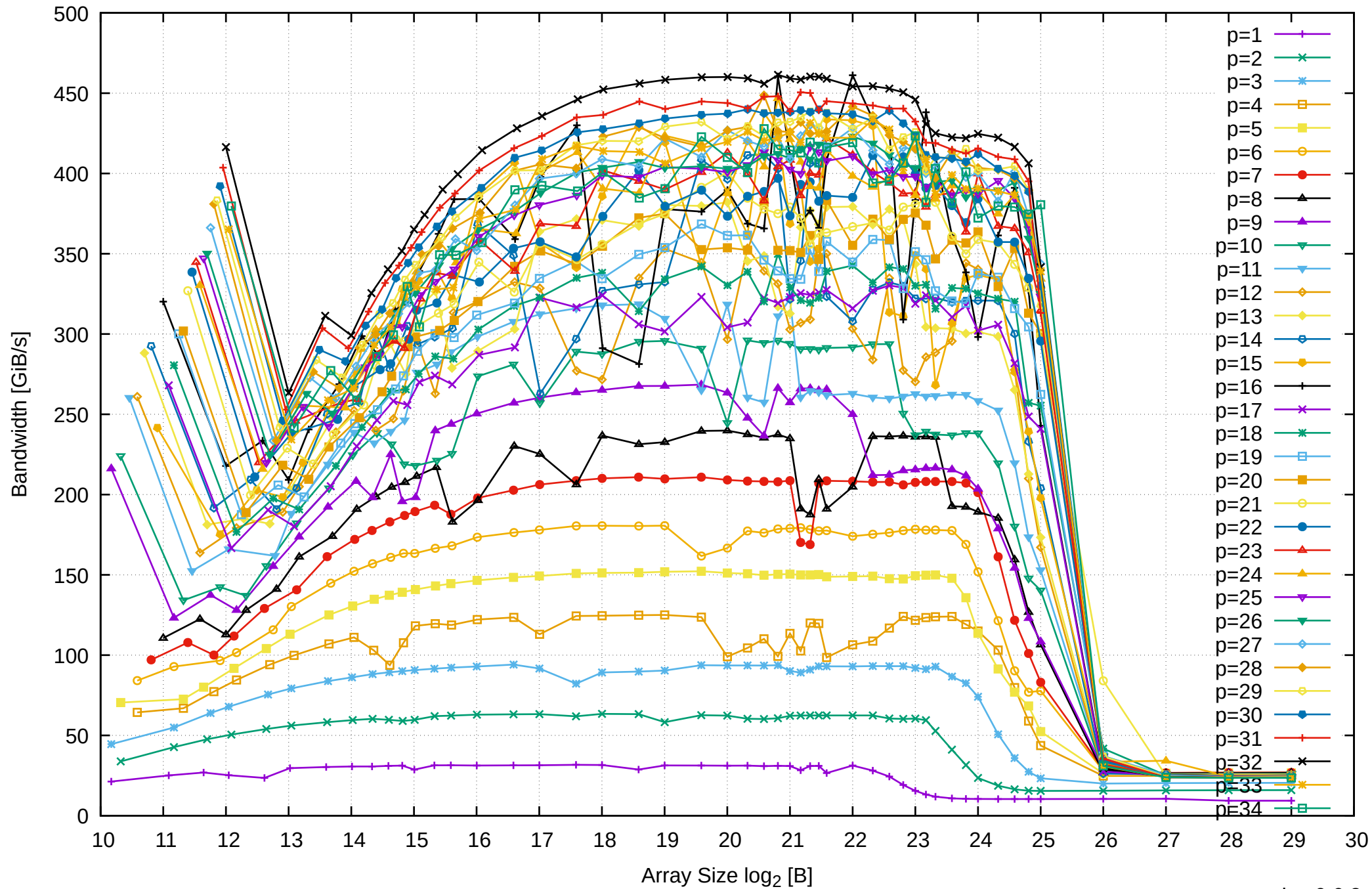




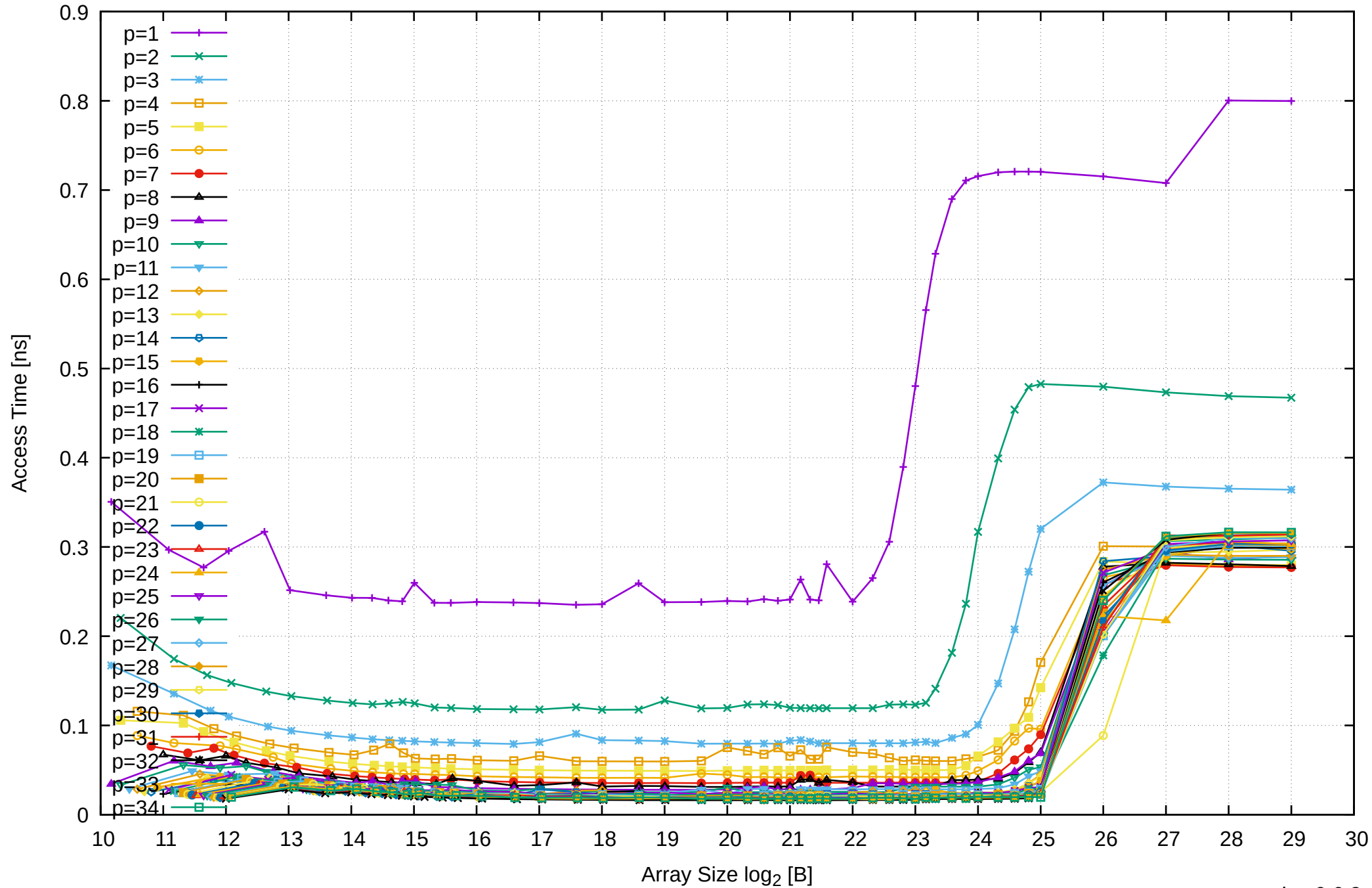
AMD Ryzen Threadripper 2950X 128GB - Speedup of Parallel Memory Bandwidth (enlarged) - ScanRead64PtrUnrollLoop



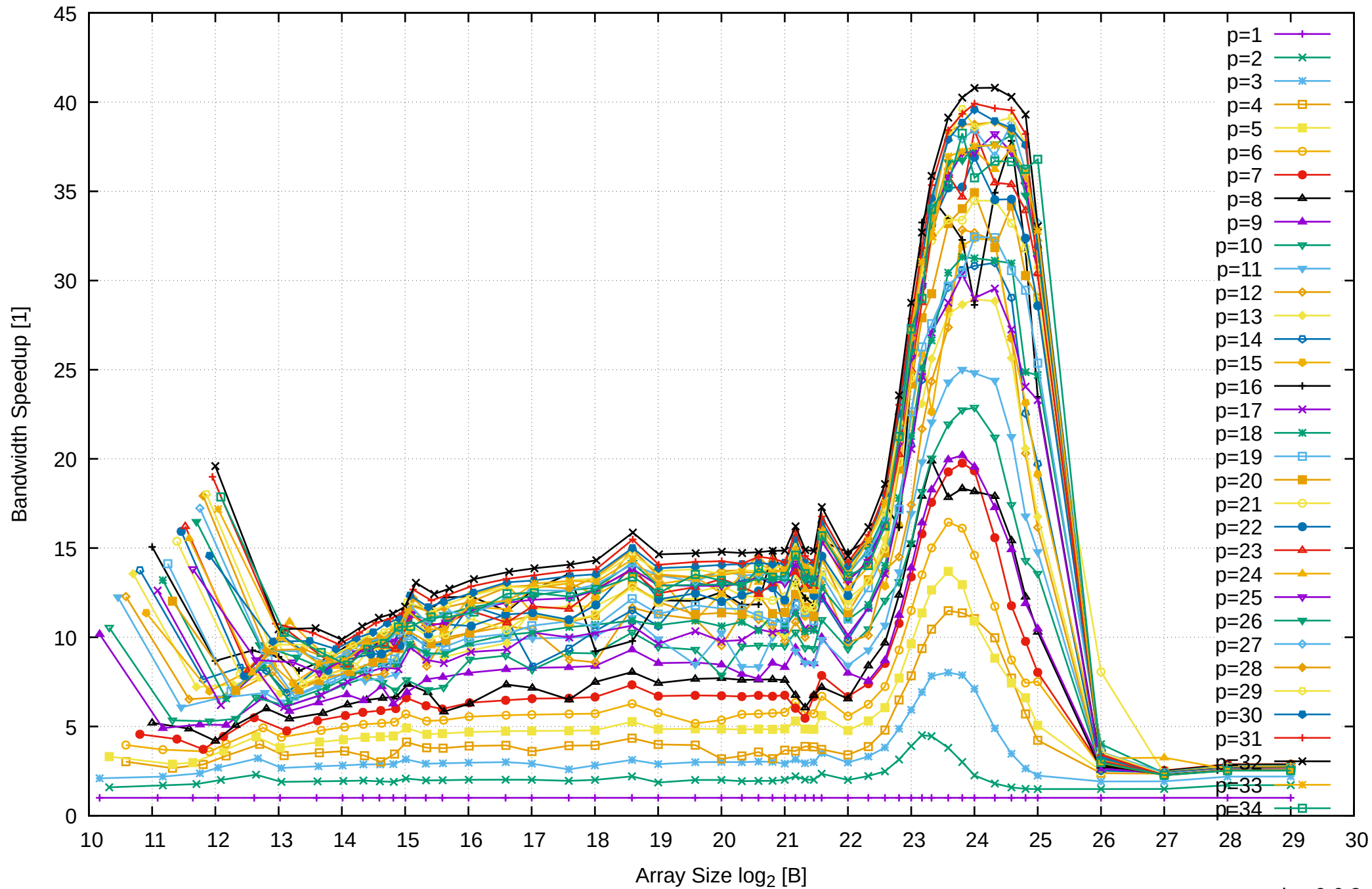
AMD Ryzen Threadripper 2950X 128GB - Parallel Memory Bandwidth - ScanWrite64IndexSimpleLoop



AMD Ryzen Threadripper 2950X 128GB - Parallel Memory Access Time - ScanWrite64IndexSimpleLoop

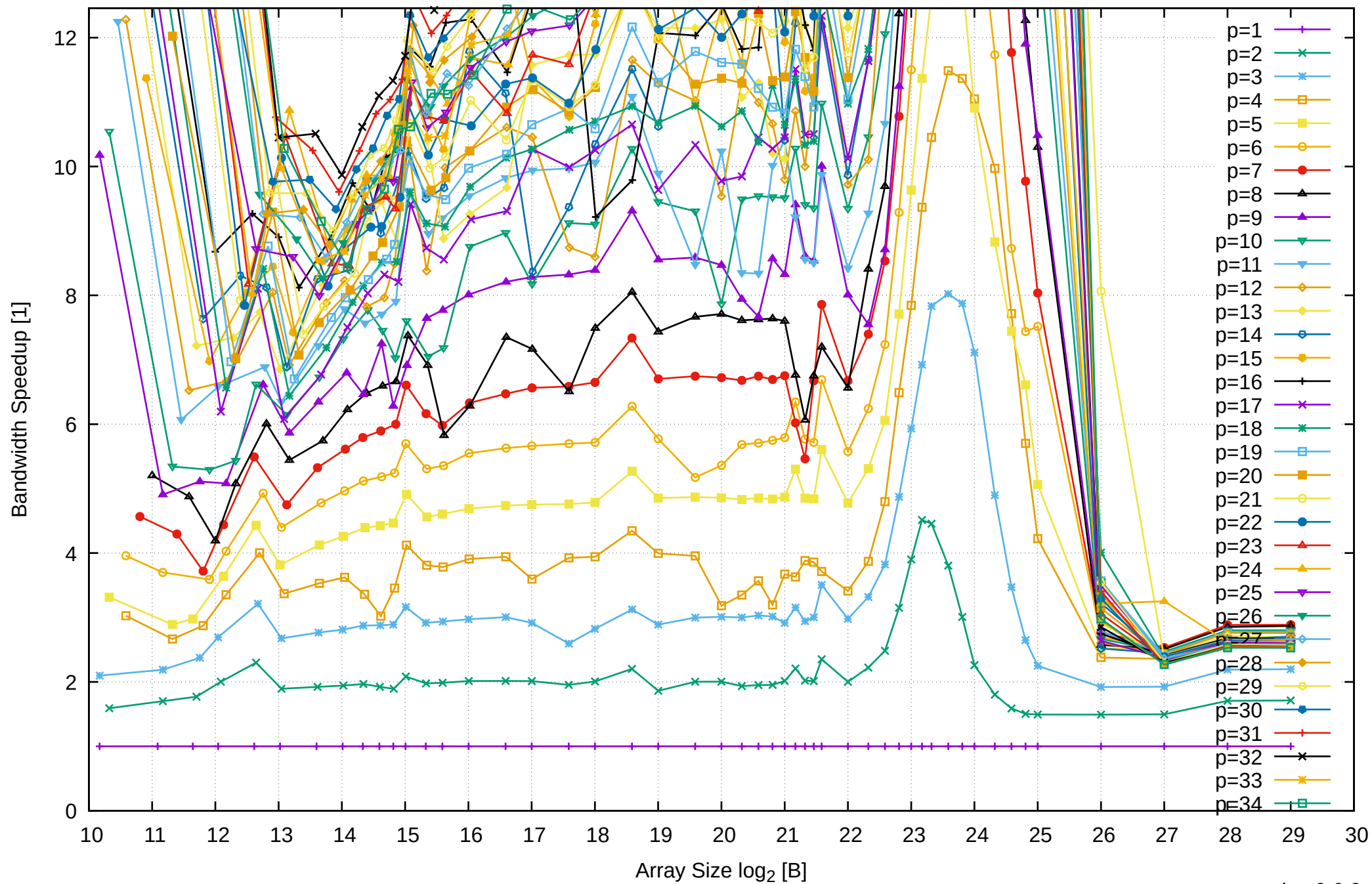


AMD Ryzen Threadripper 2950X 128GB - Speedup of Parallel Memory Bandwidth - ScanWrite64IndexSimpleLoop

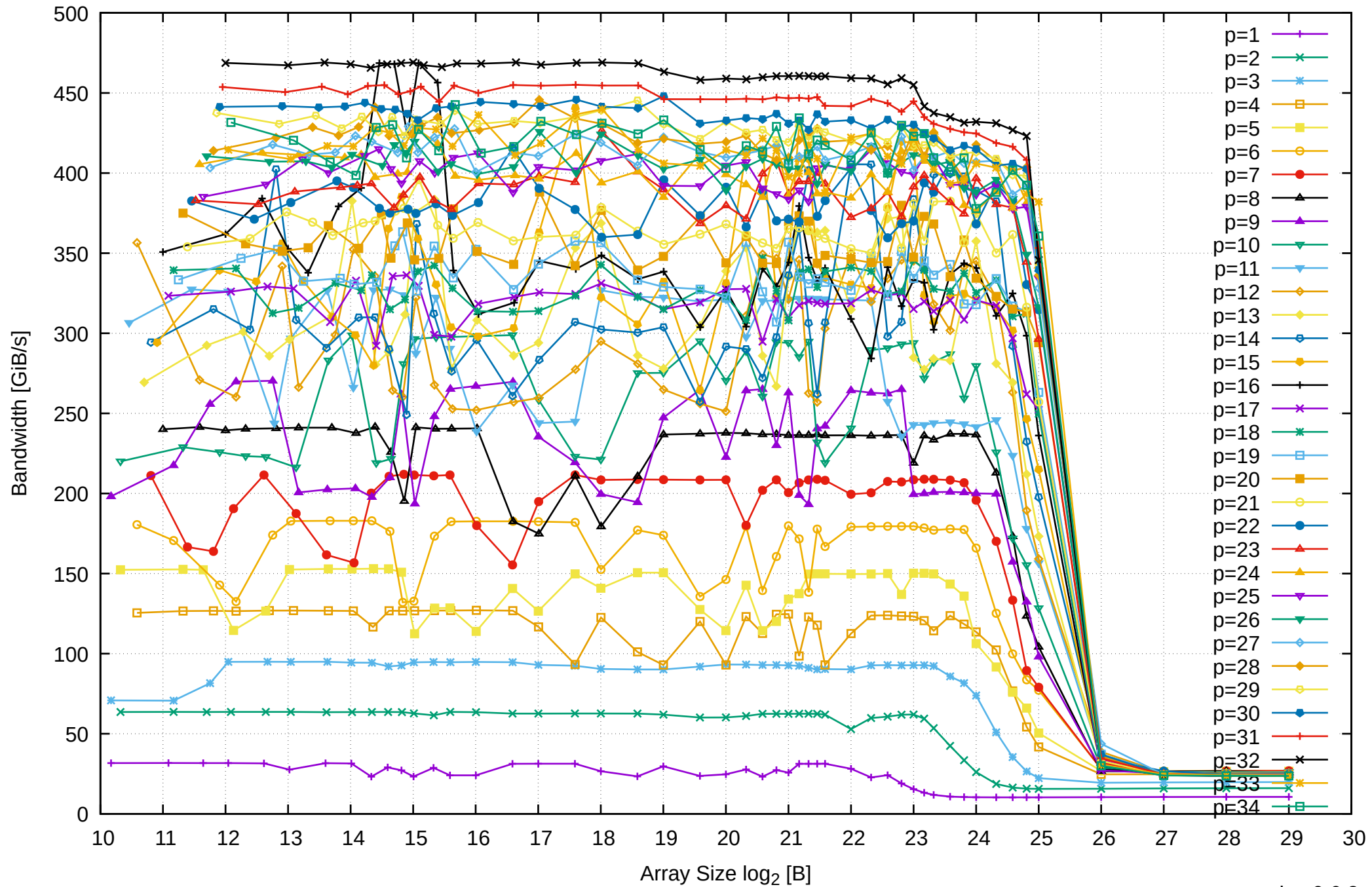




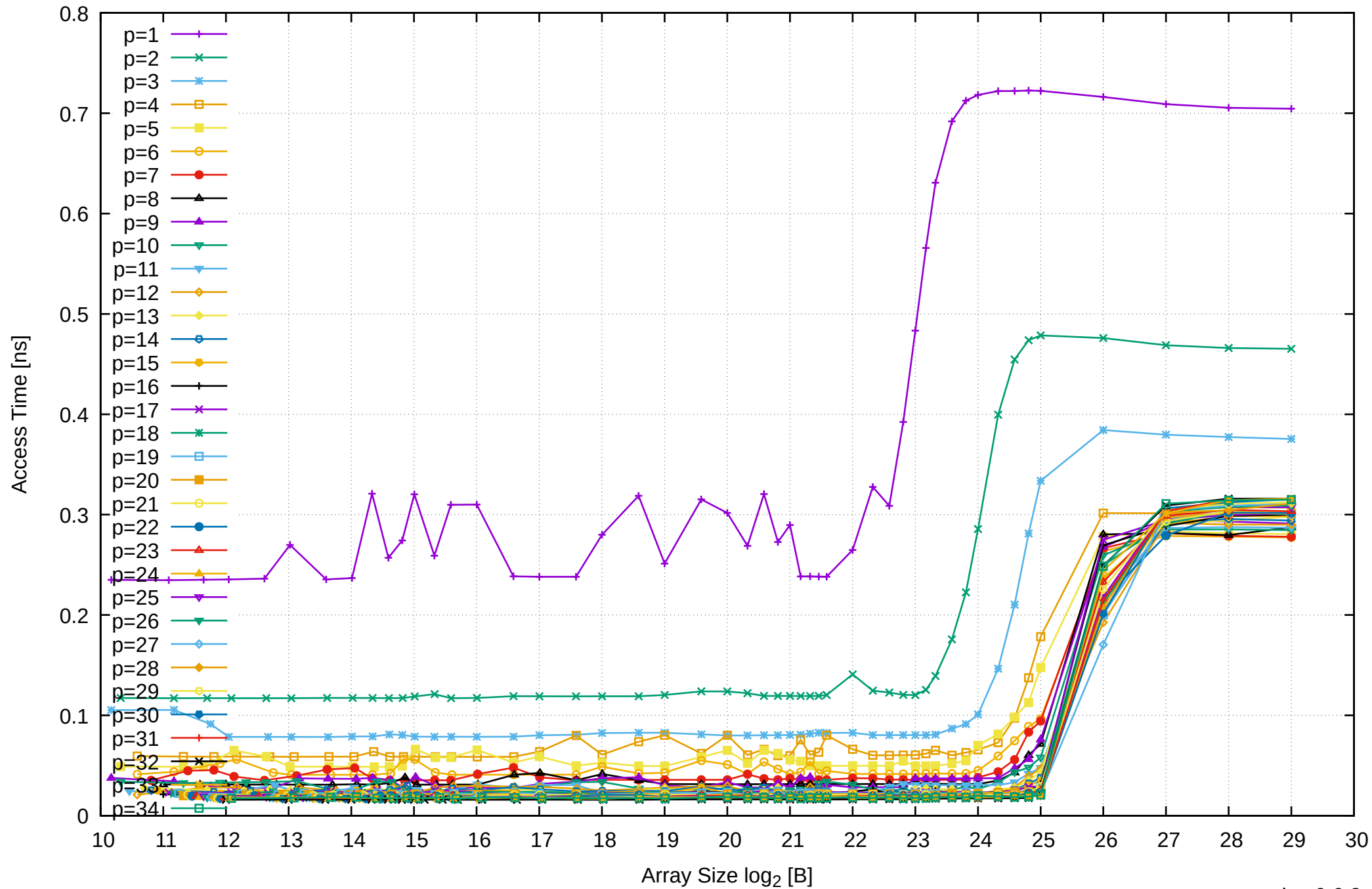
AMD Ryzen Threadripper 2950X 128GB - Speedup of Parallel Memory Bandwidth (enlarged) - ScanWrite64IndexSimpleLoop



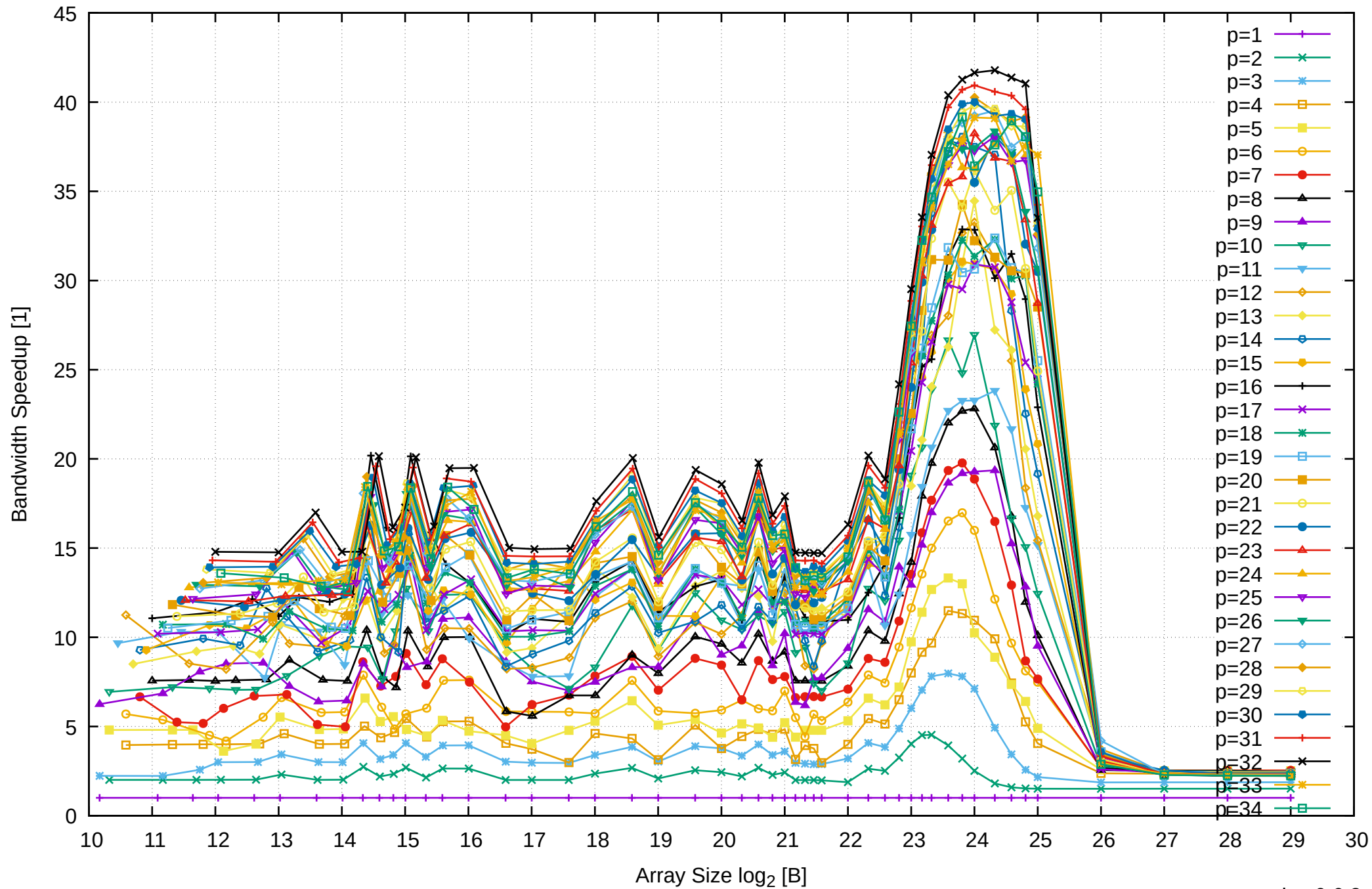
AMD Ryzen Threadripper 2950X 128GB - Parallel Memory Bandwidth - ScanWrite64IndexUnrollLoop



AMD Ryzen Threadripper 2950X 128GB - Parallel Memory Access Time - ScanWrite64IndexUnrollLoop

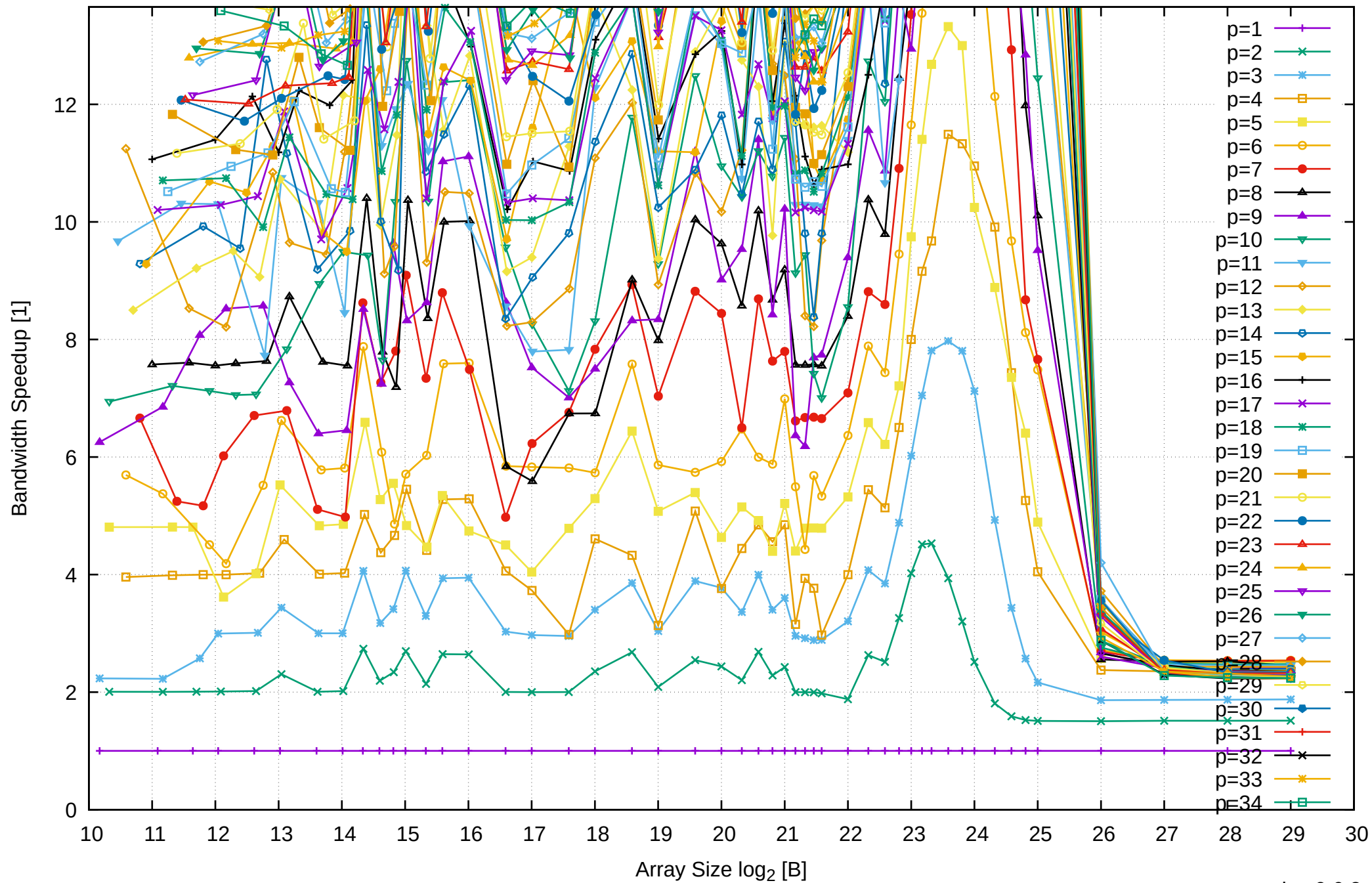


AMD Ryzen Threadripper 2950X 128GB - Speedup of Parallel Memory Bandwidth - ScanWrite64IndexUnrollLoop

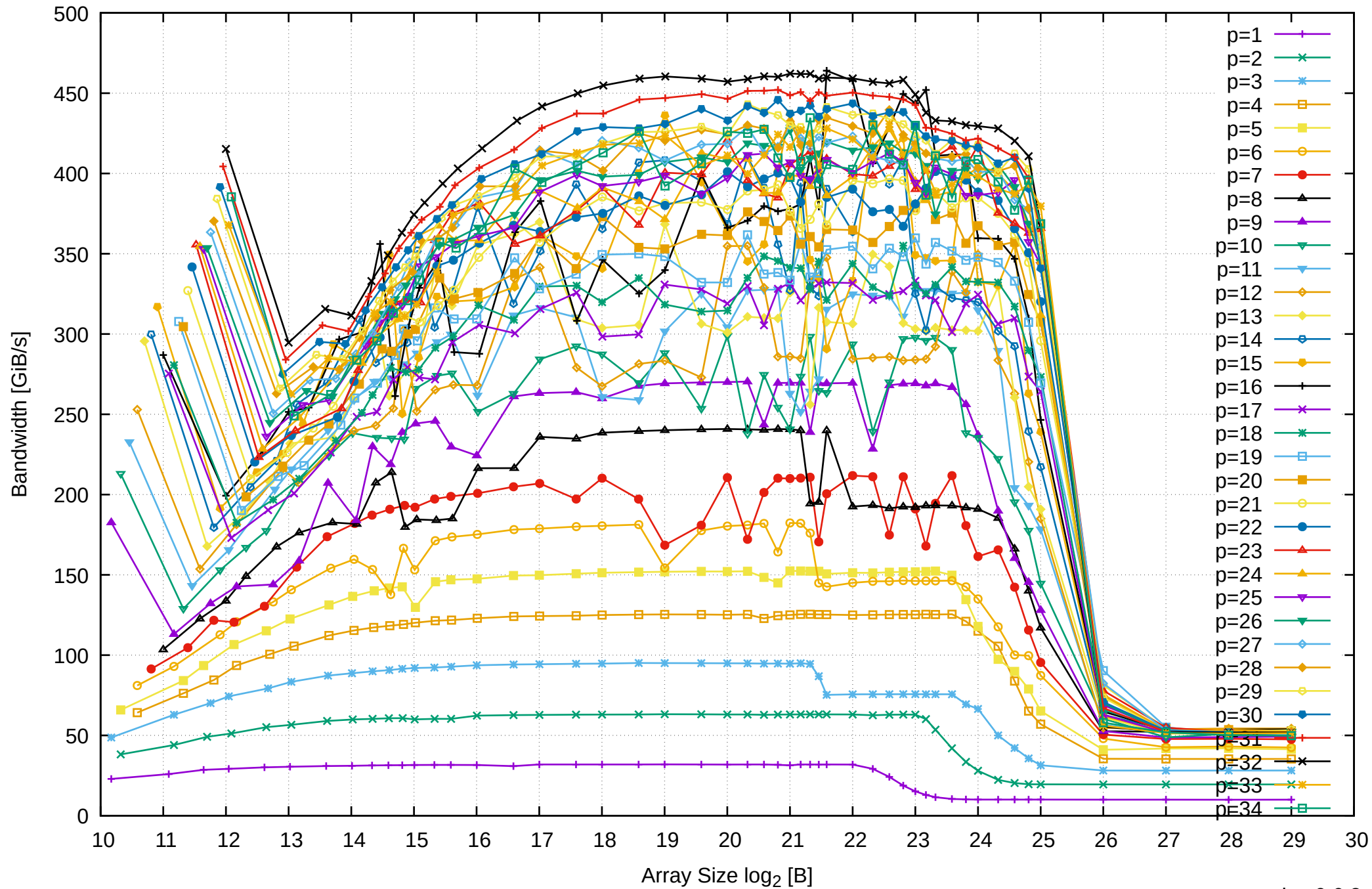




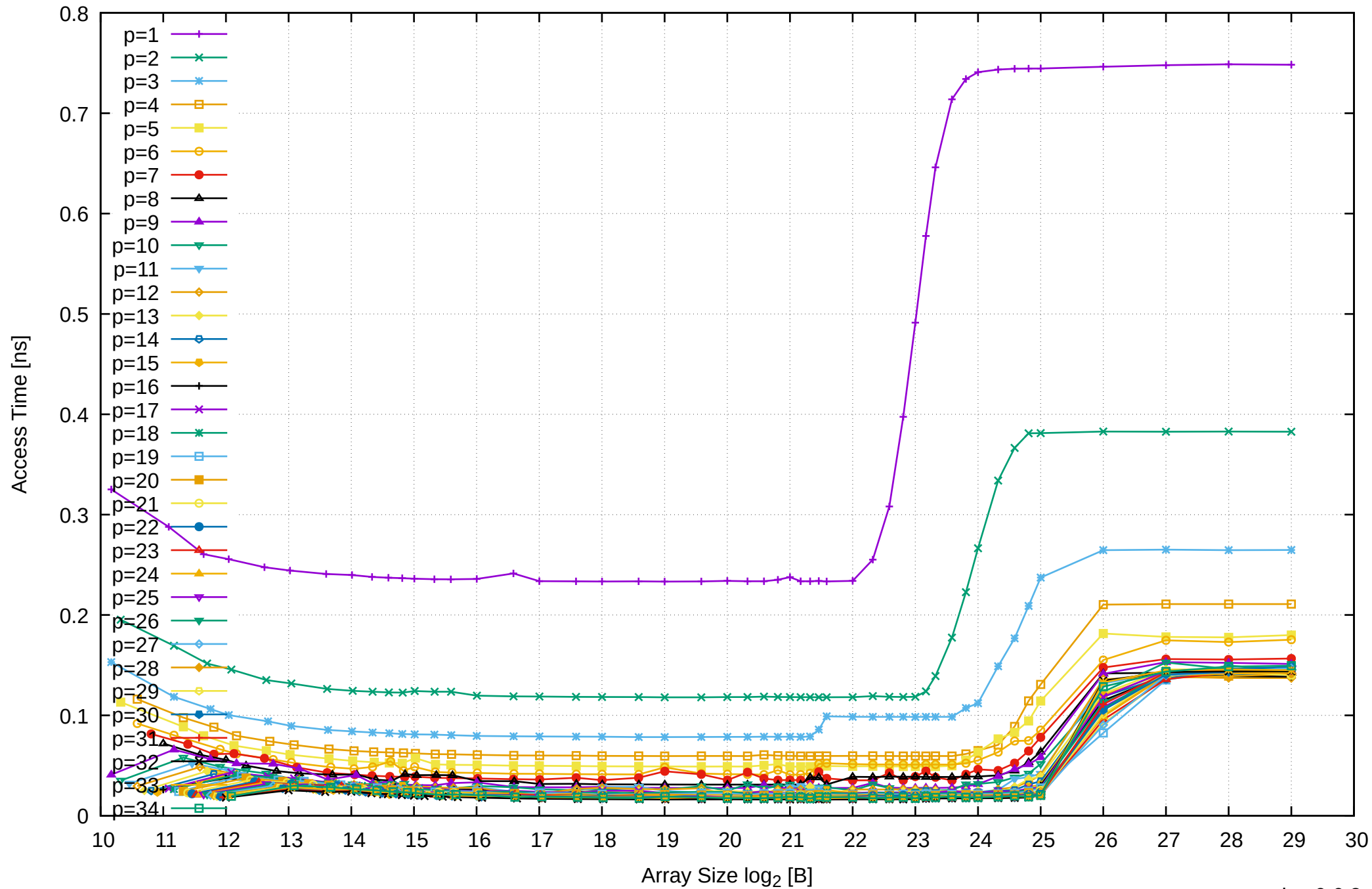
AMD Ryzen Threadripper 2950X 128GB - Speedup of Parallel Memory Bandwidth (enlarged) - ScanWrite64IndexUnrollLoop



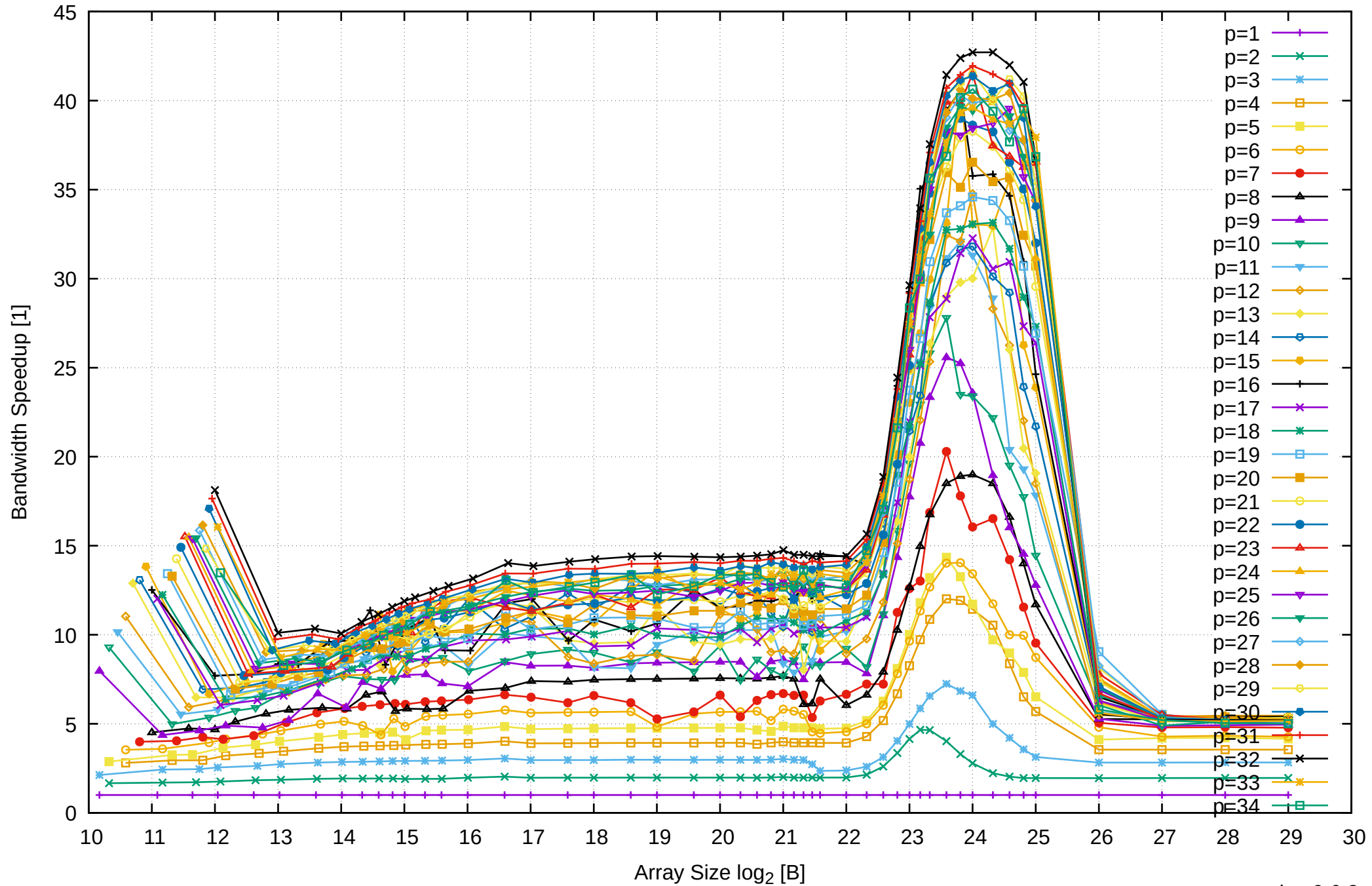
AMD Ryzen Threadripper 2950X 128GB - Parallel Memory Bandwidth - ScanRead64IndexSimpleLoop



AMD Ryzen Threadripper 2950X 128GB - Parallel Memory Access Time - ScanRead64IndexSimpleLoop

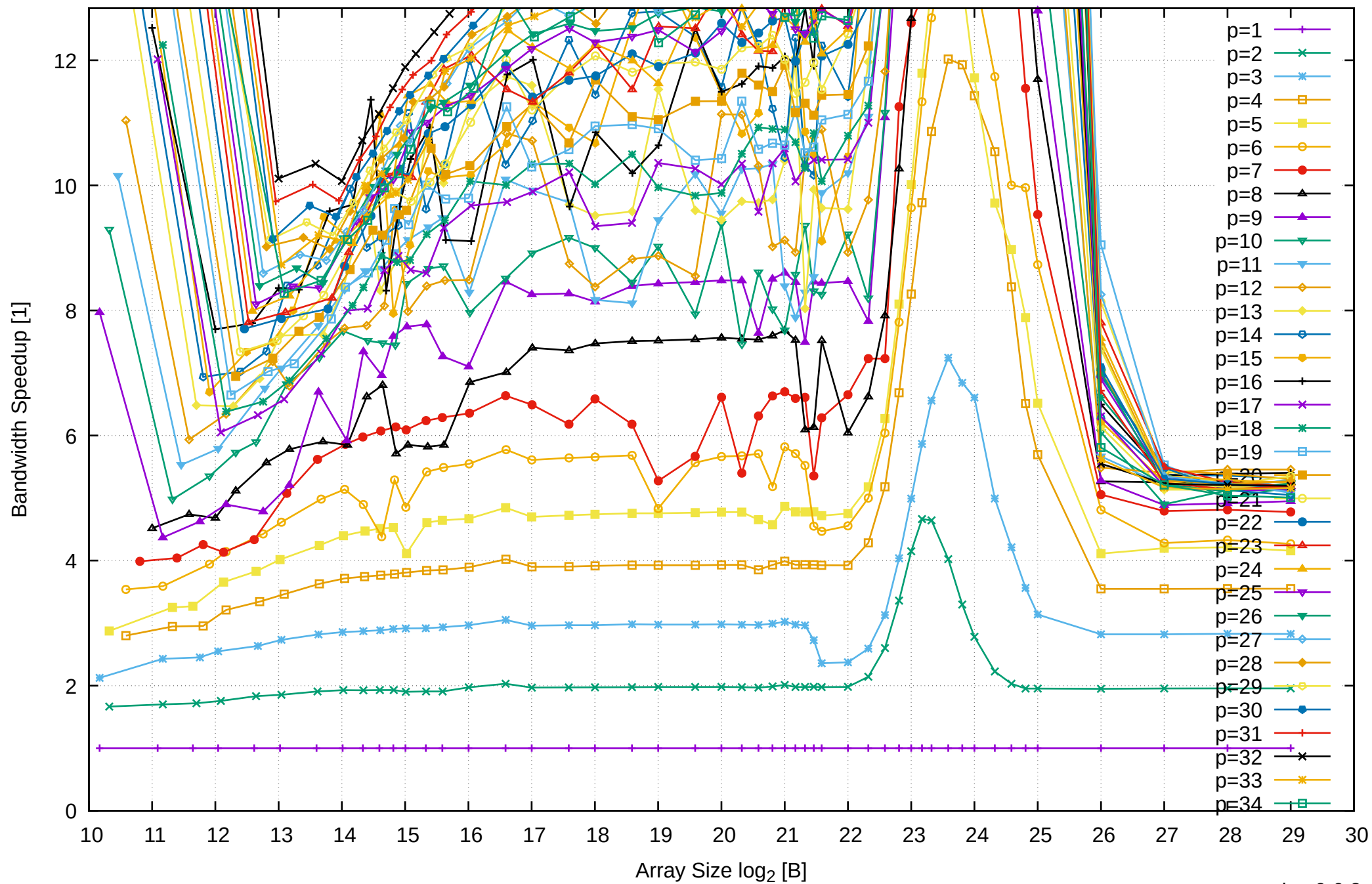


AMD Ryzen Threadripper 2950X 128GB - Speedup of Parallel Memory Bandwidth - ScanRead64IndexSimpleLoop

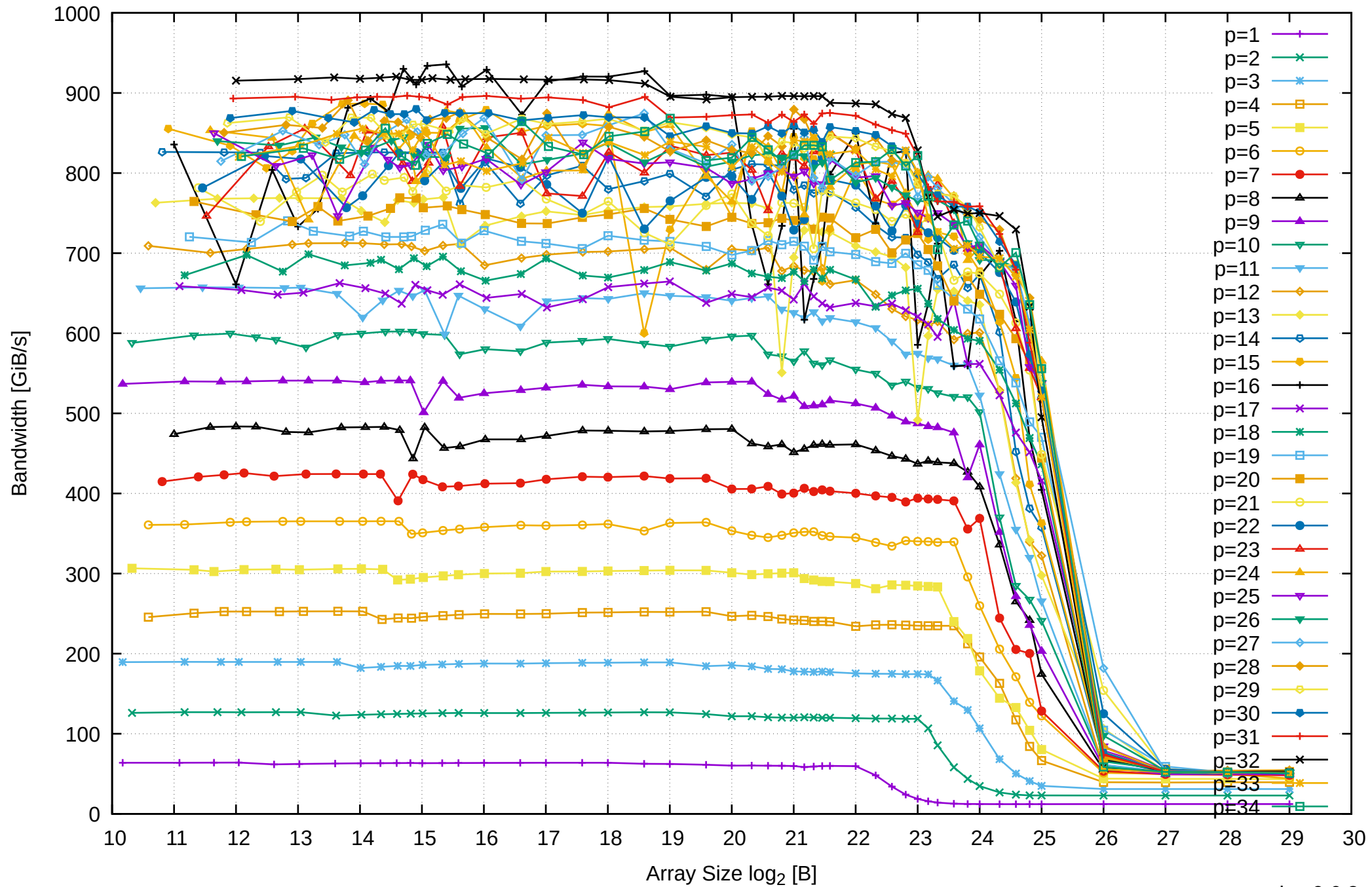




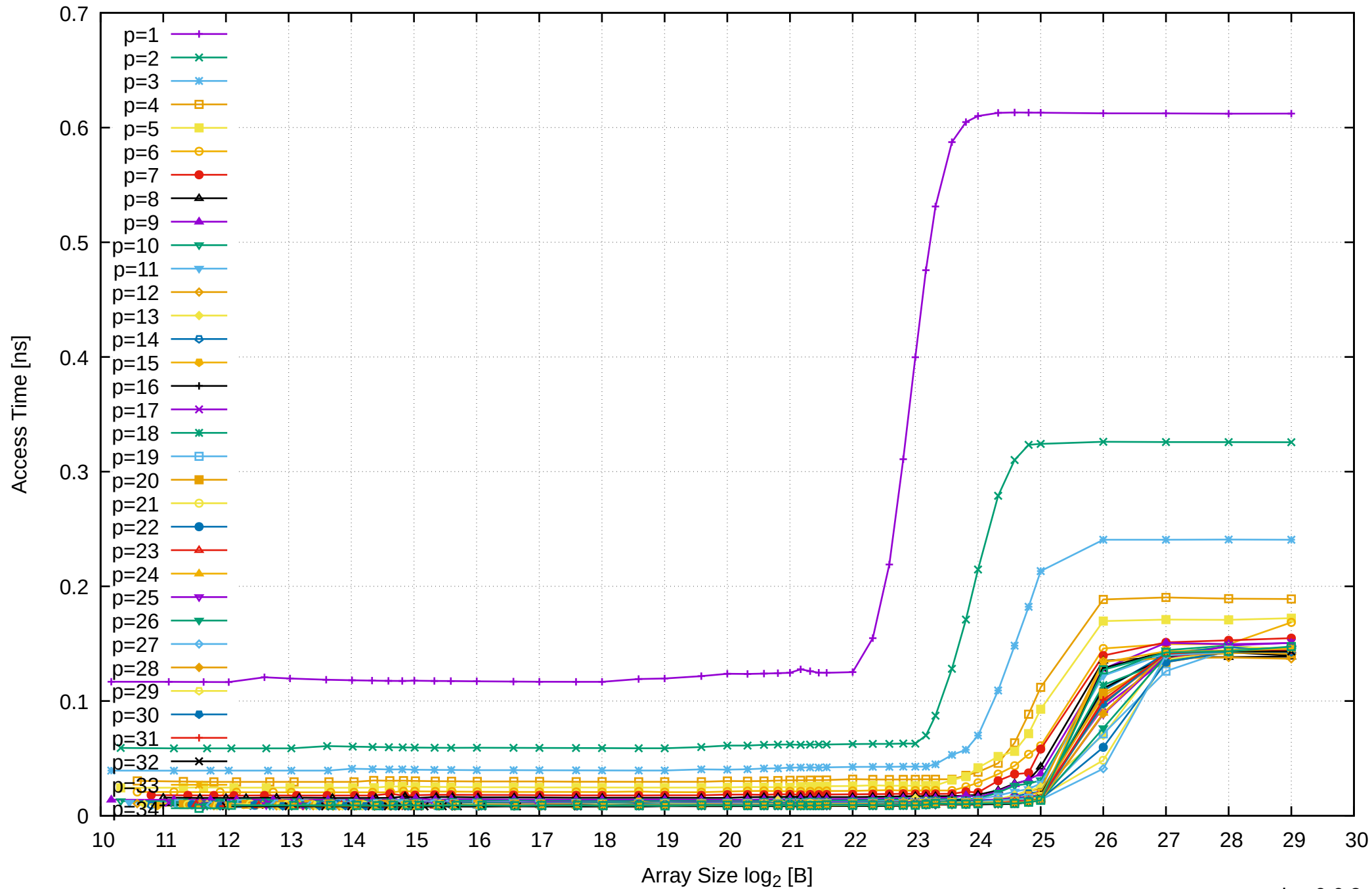
AMD Ryzen Threadripper 2950X 128GB - Speedup of Parallel Memory Bandwidth (enlarged) - ScanRead64IndexSimpleLoop



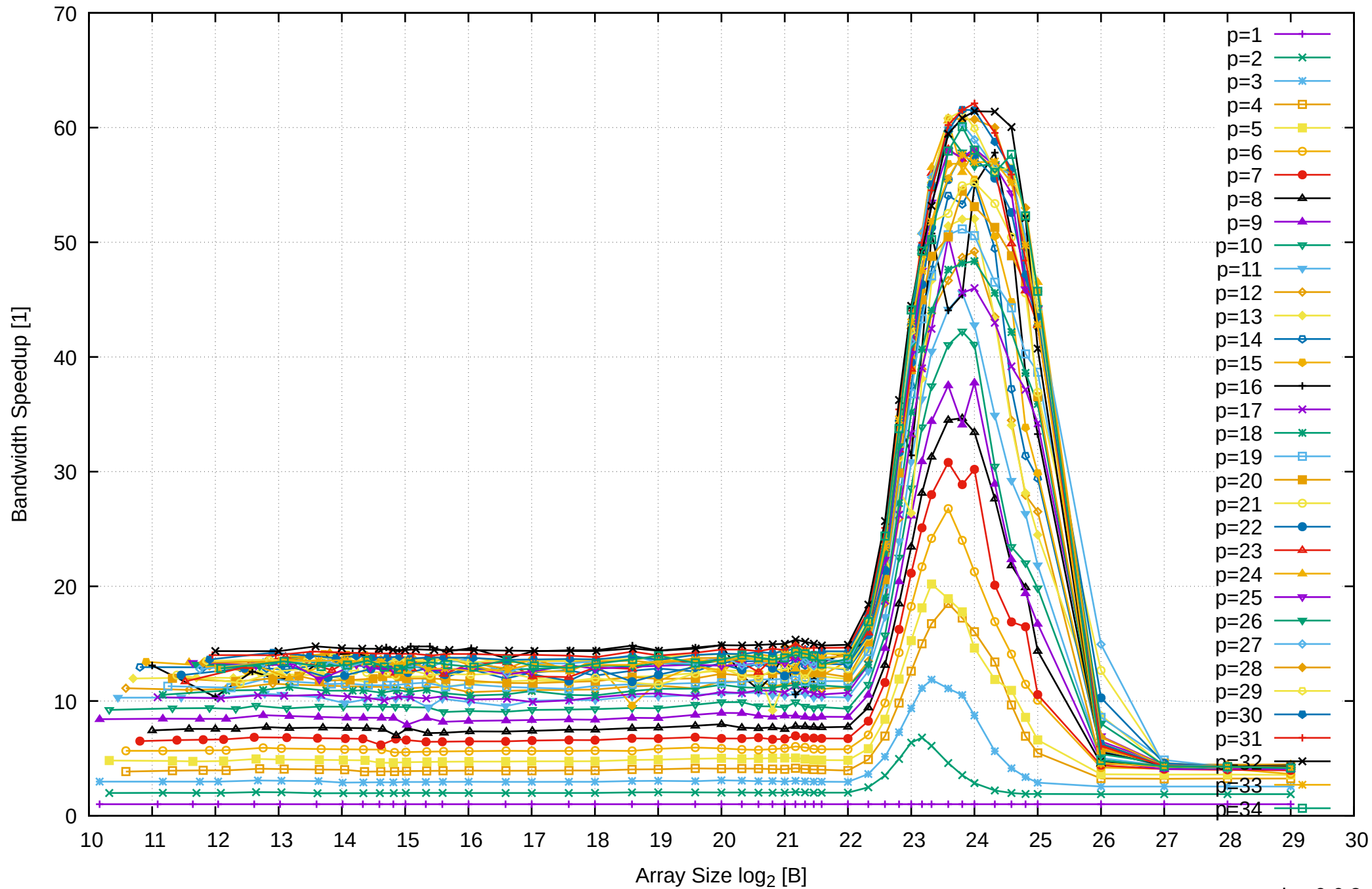
AMD Ryzen Threadripper 2950X 128GB - Parallel Memory Bandwidth - ScanRead64IndexUnrollLoop



AMD Ryzen Threadripper 2950X 128GB - Parallel Memory Access Time - ScanRead64IndexUnrollLoop

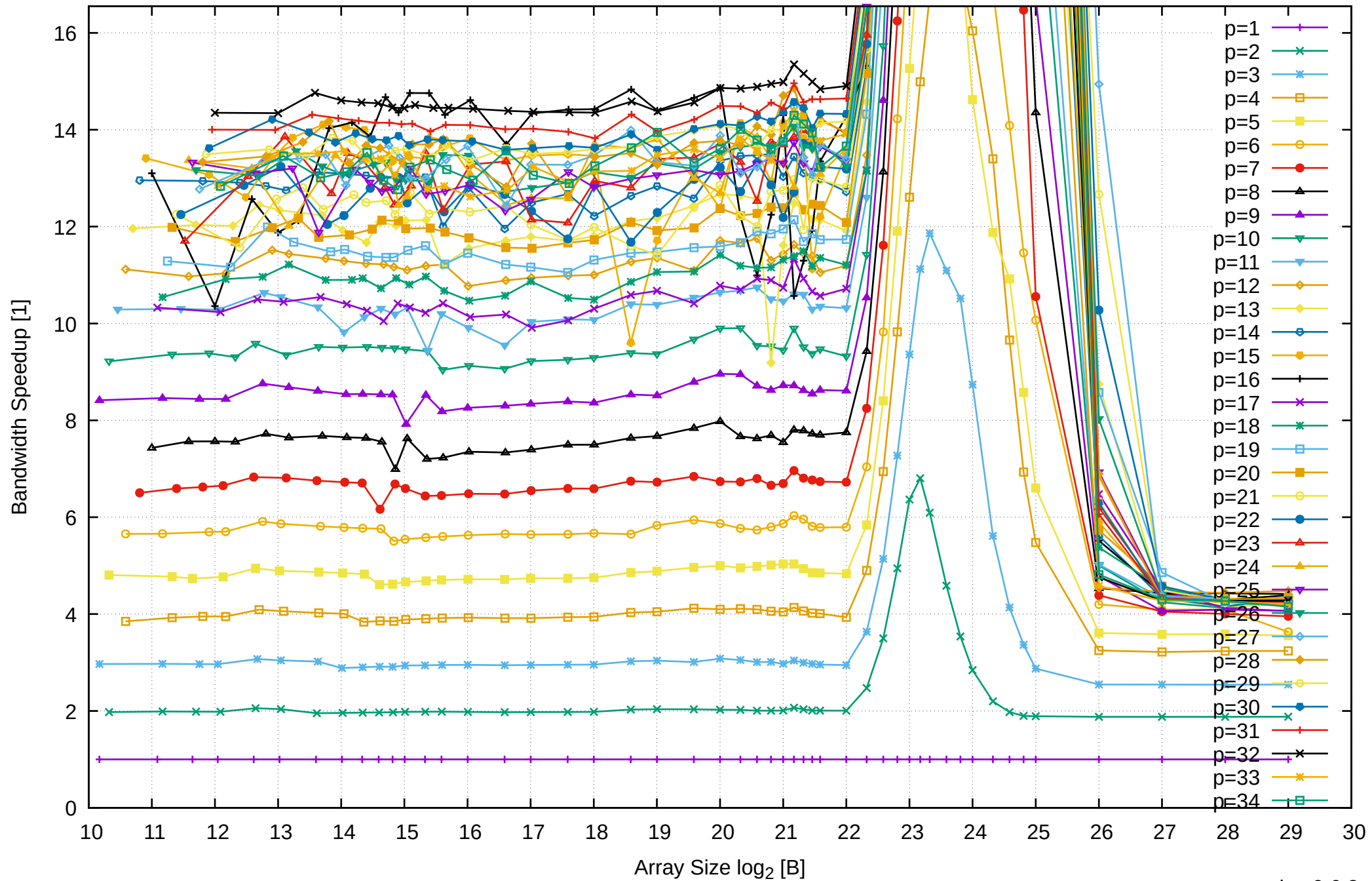


AMD Ryzen Threadripper 2950X 128GB - Speedup of Parallel Memory Bandwidth - ScanRead64IndexUnrollLoop

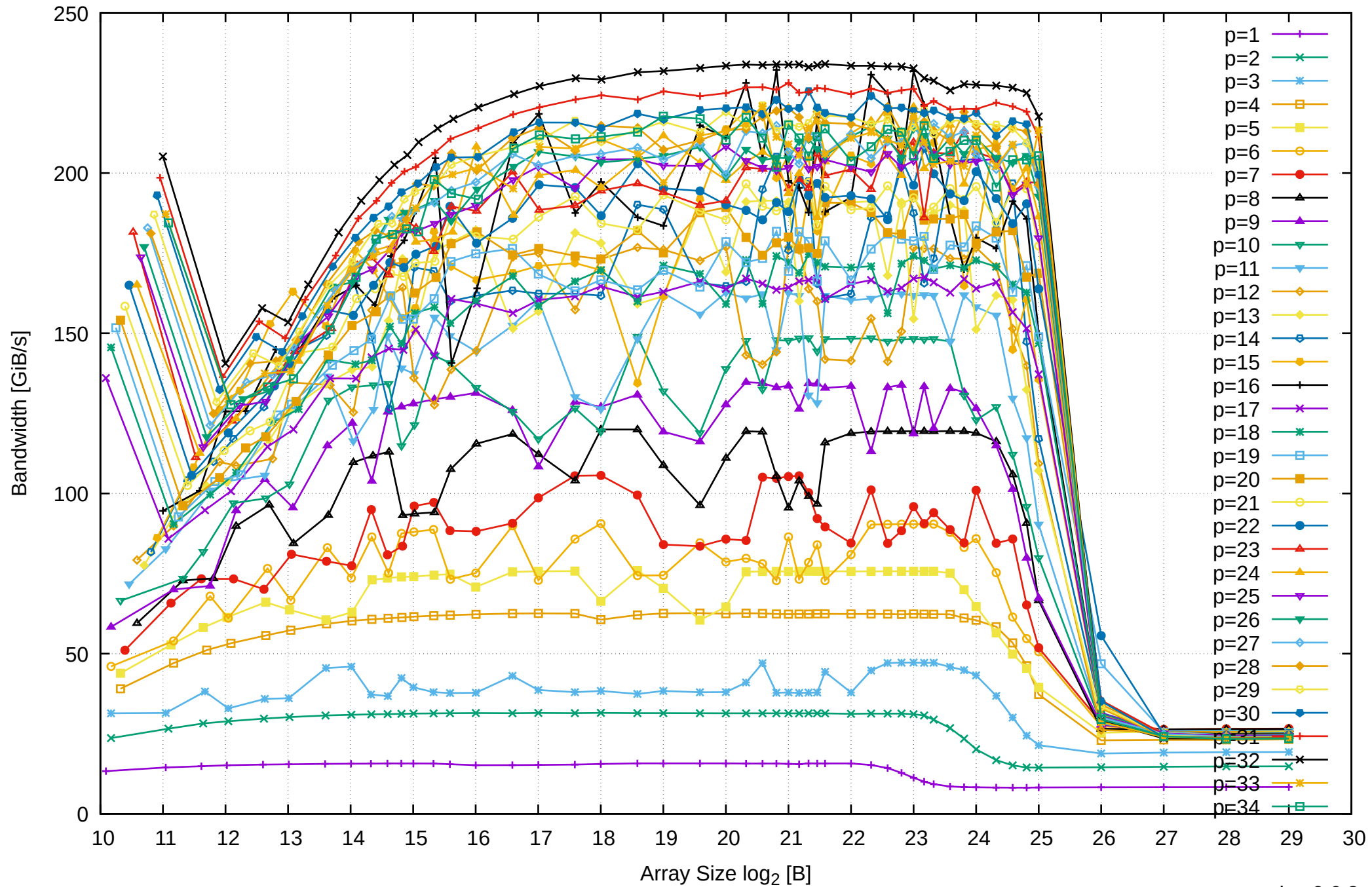




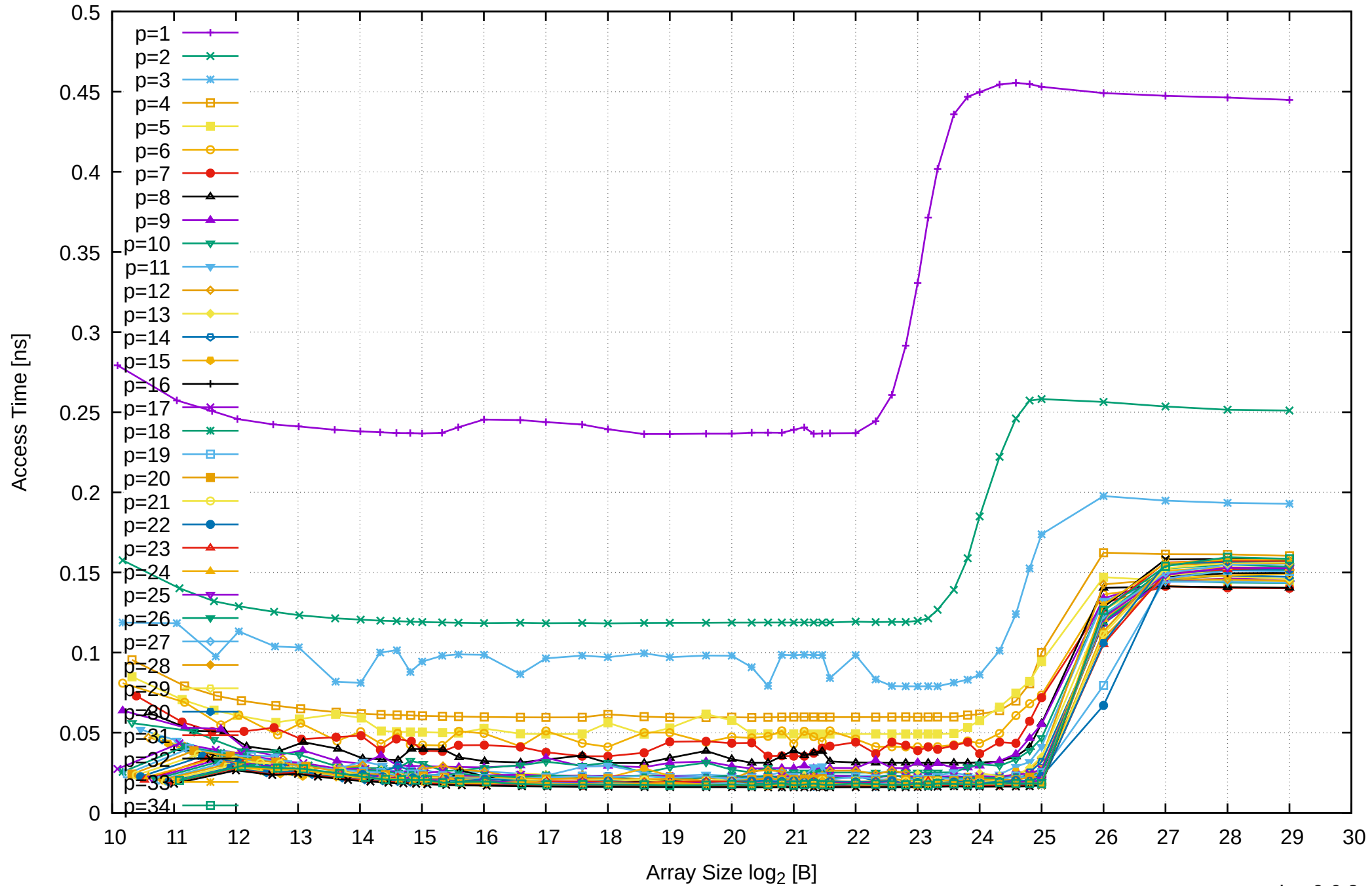
AMD Ryzen Threadripper 2950X 128GB - Speedup of Parallel Memory Bandwidth (enlarged) - ScanRead64IndexUnrollLoop



AMD Ryzen Threadripper 2950X 128GB - Parallel Memory Bandwidth - ScanWrite32PtrSimpleLoop



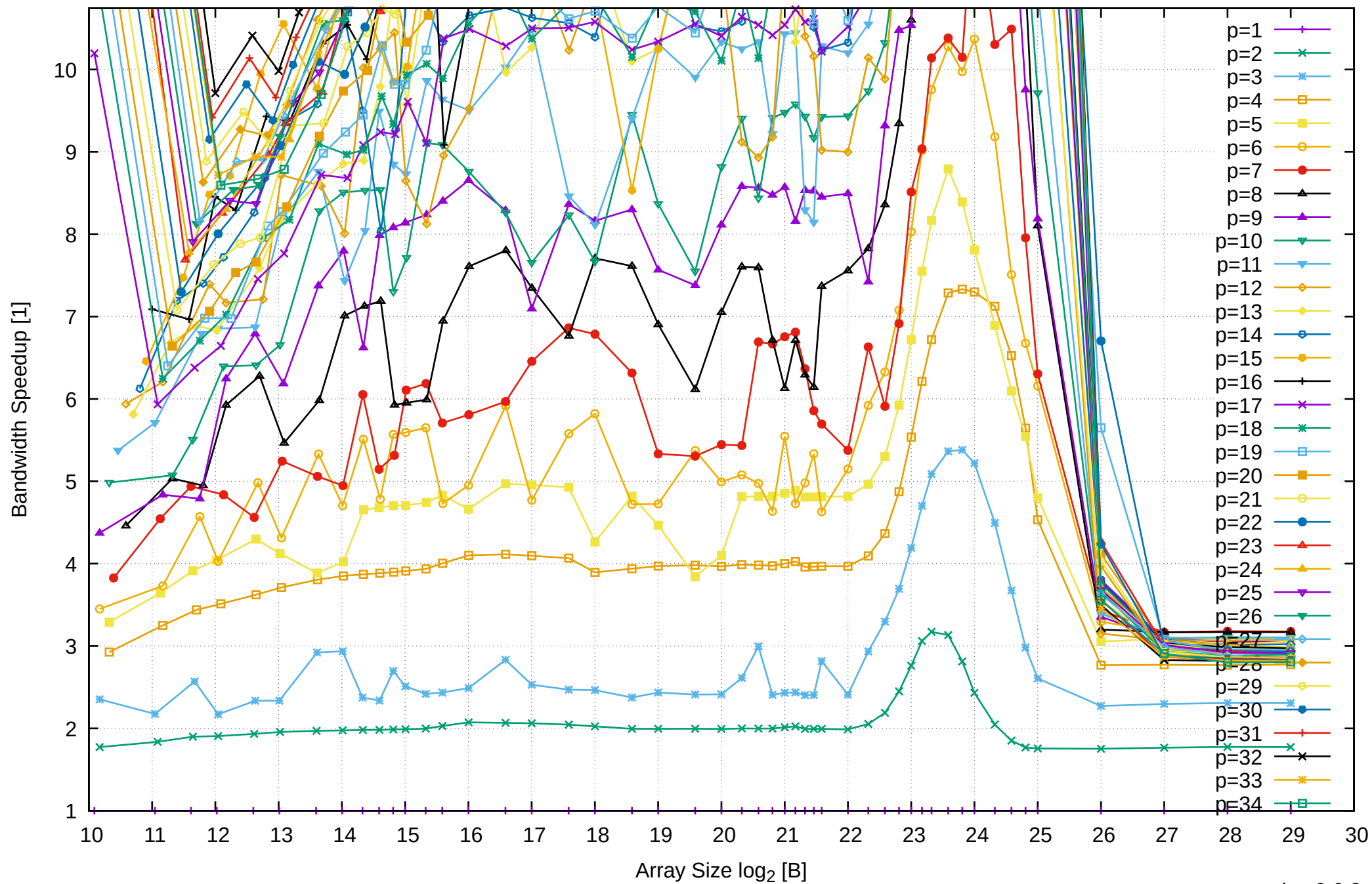
AMD Ryzen Threadripper 2950X 128GB - Parallel Memory Access Time - ScanWrite32PtrSimpleLoop



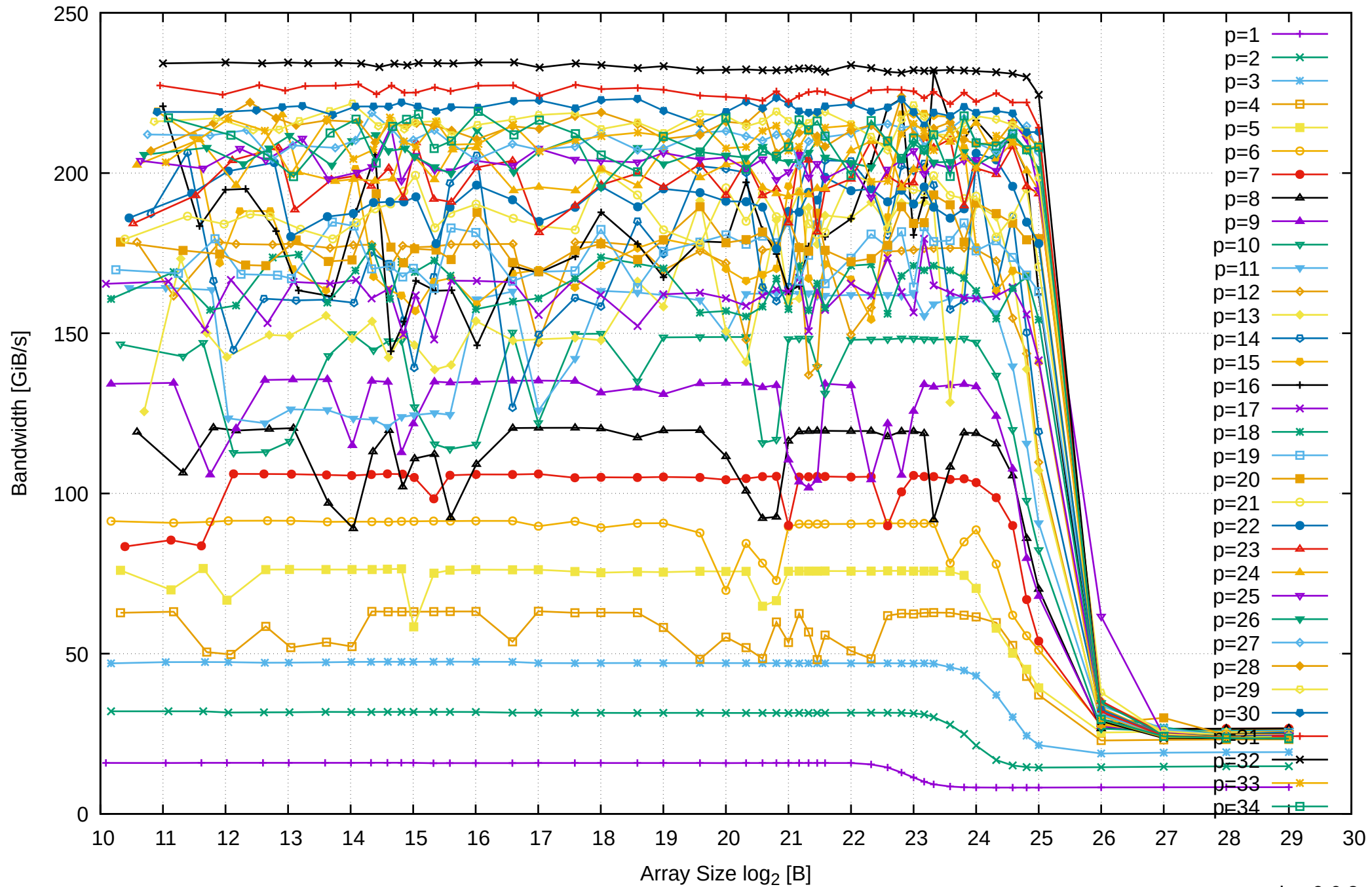




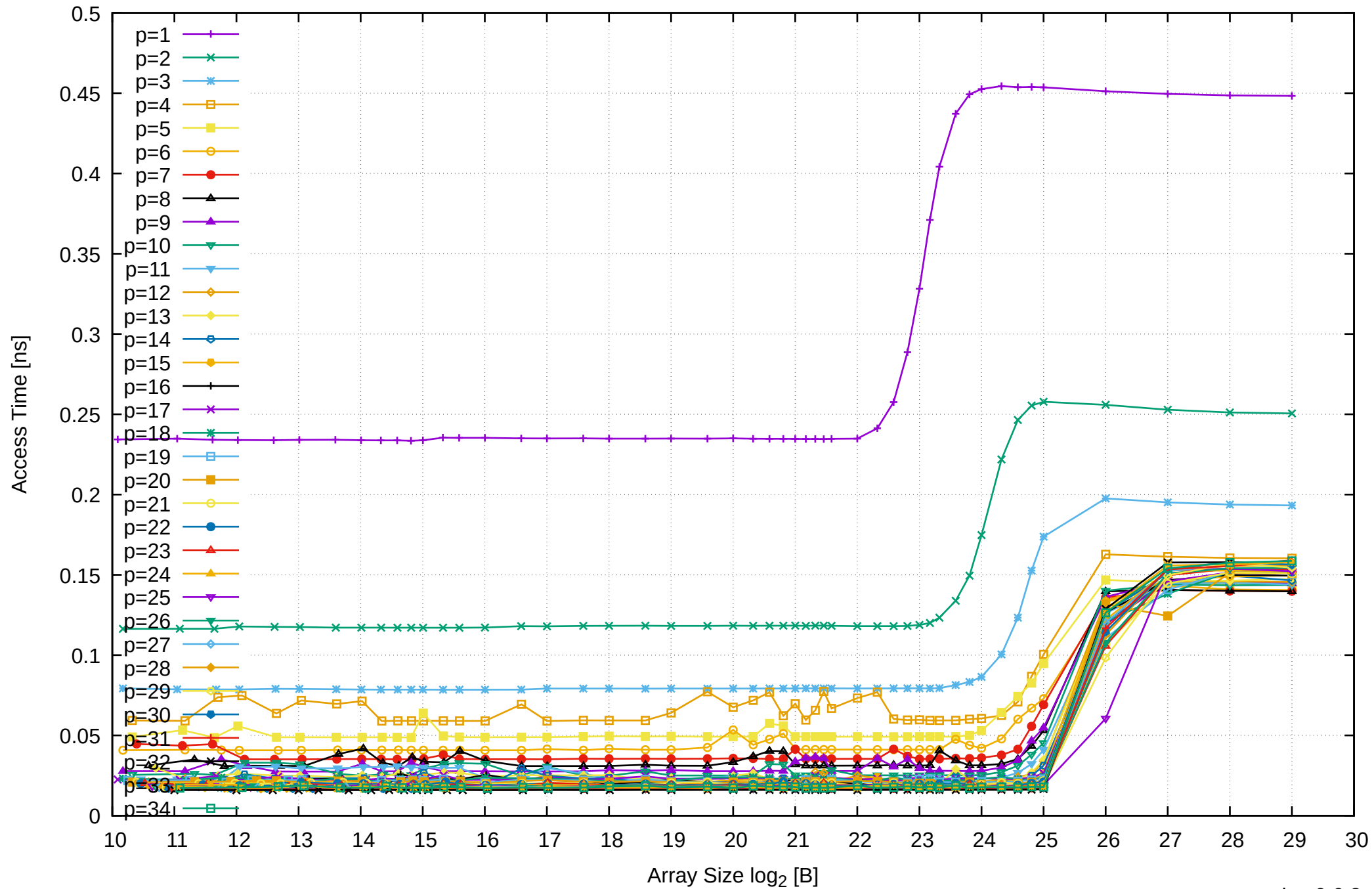
AMD Ryzen Threadripper 2950X 128GB - Speedup of Parallel Memory Bandwidth (enlarged) - ScanWrite32PtrSimpleLoop



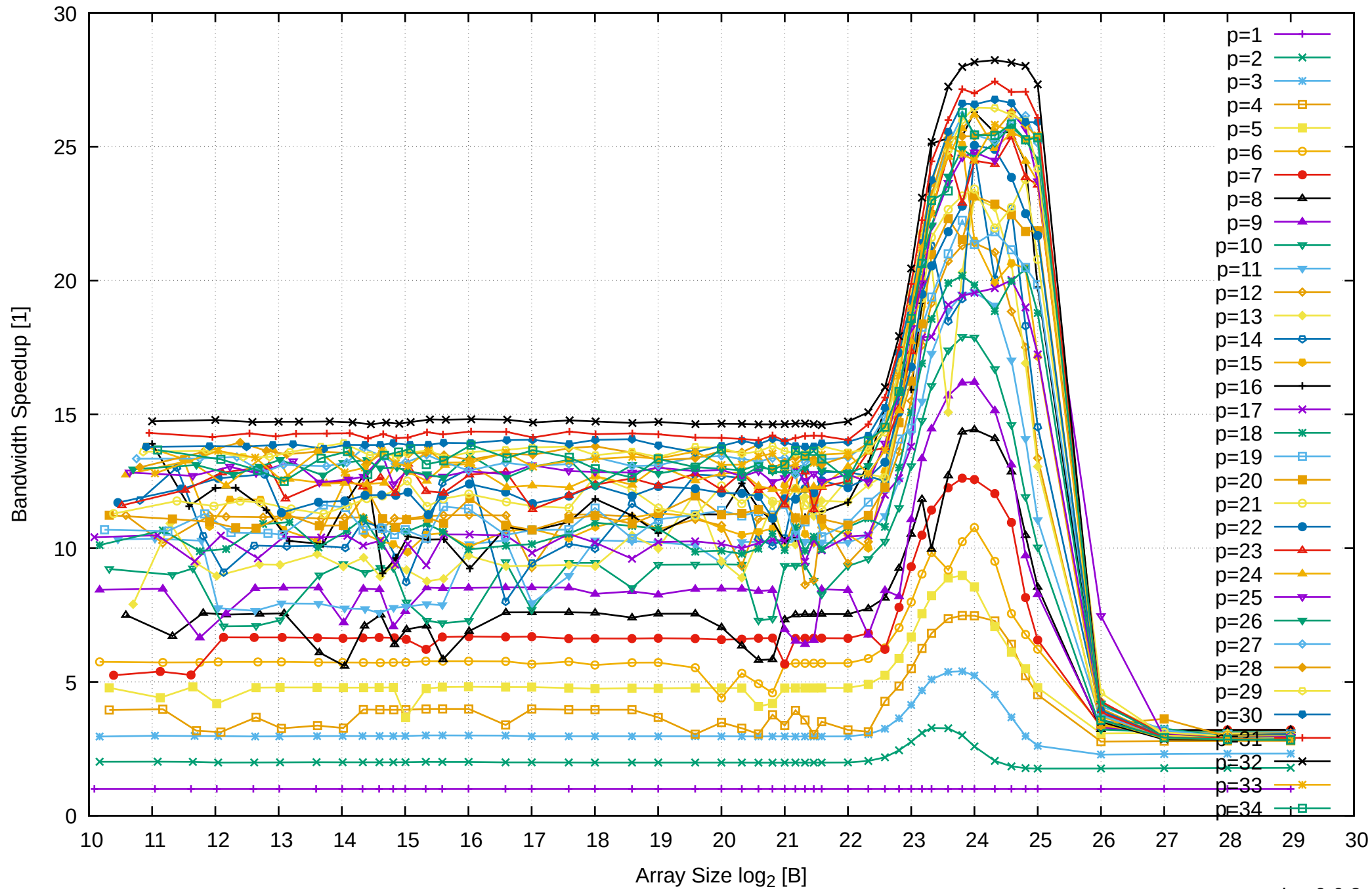
AMD Ryzen Threadripper 2950X 128GB - Parallel Memory Bandwidth - ScanWrite32PtrUnrollLoop



AMD Ryzen Threadripper 2950X 128GB - Parallel Memory Access Time - ScanWrite32PtrUnrollLoop

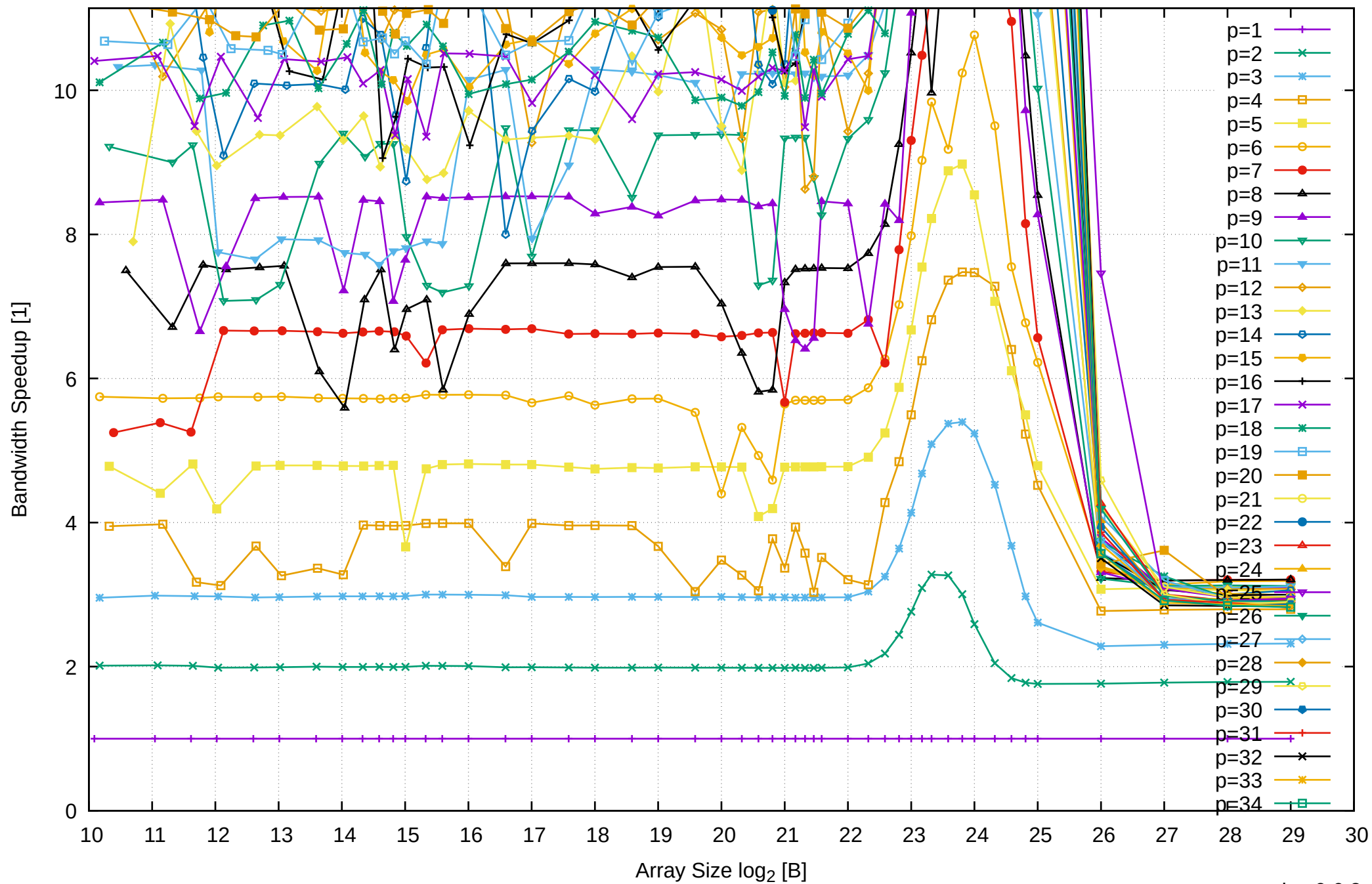


AMD Ryzen Threadripper 2950X 128GB - Speedup of Parallel Memory Bandwidth - ScanWrite32PtrUnrollLoop

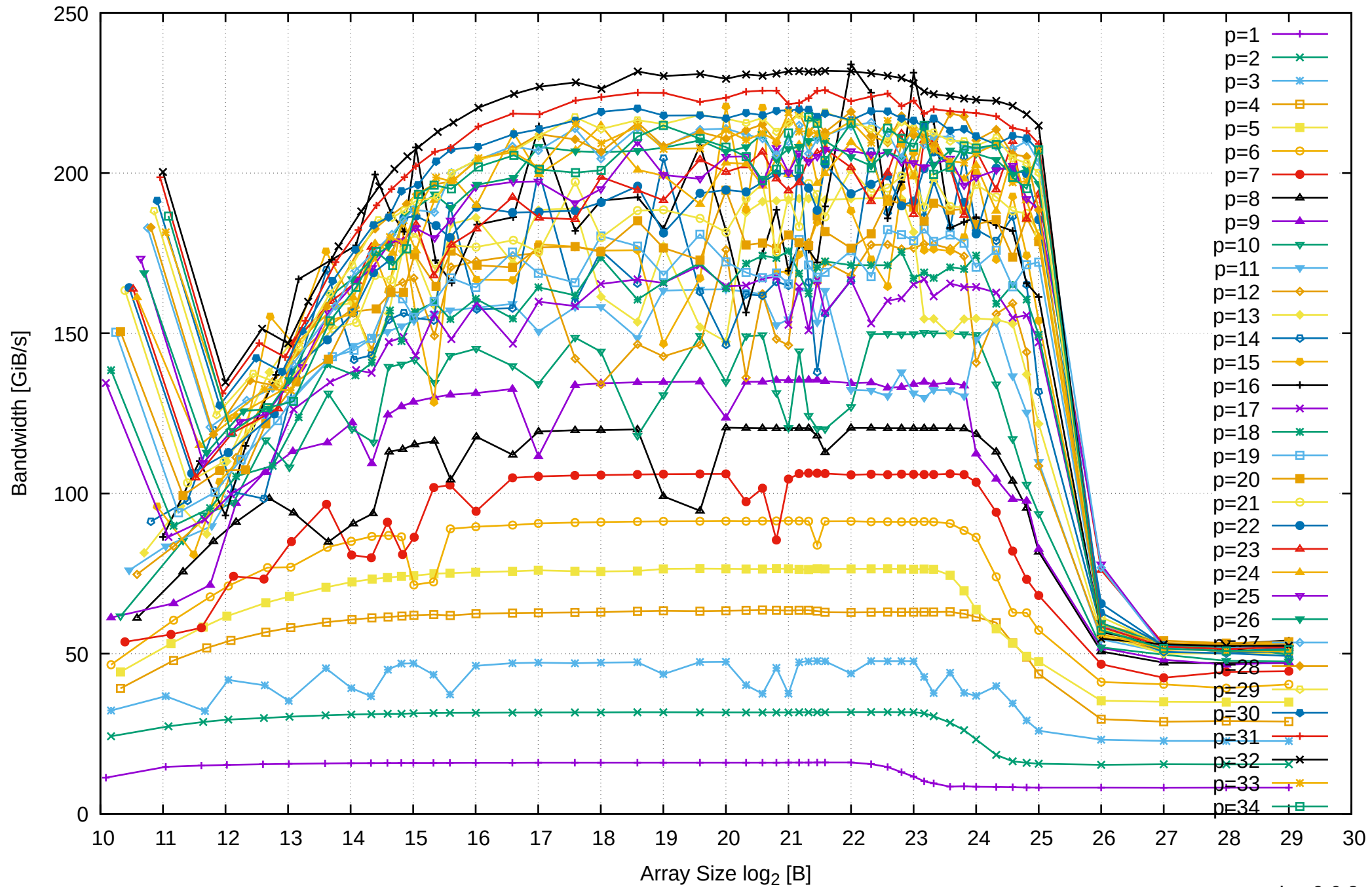




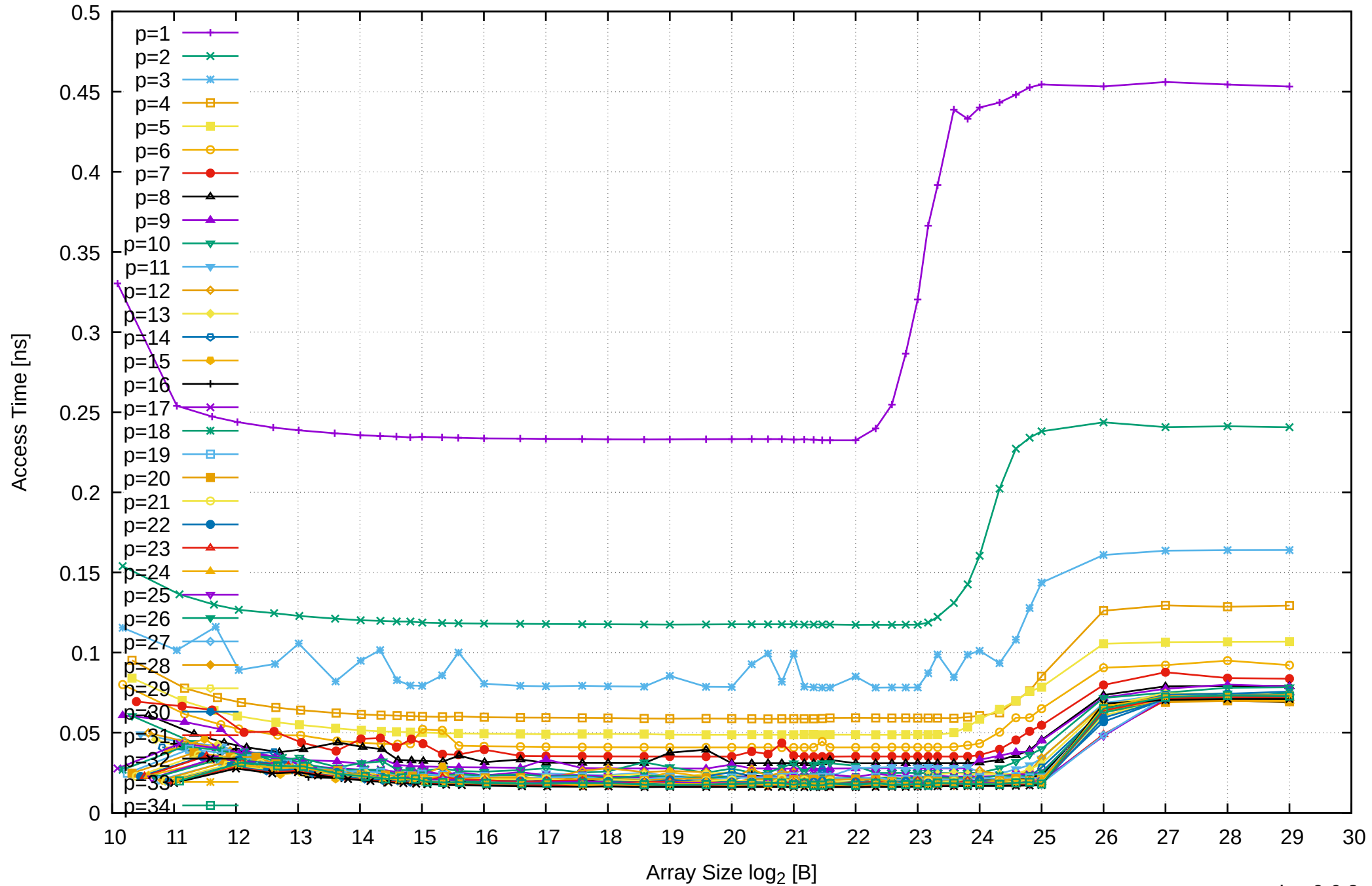
AMD Ryzen Threadripper 2950X 128GB - Speedup of Parallel Memory Bandwidth (enlarged) - ScanWrite32PtrUnrollLoop



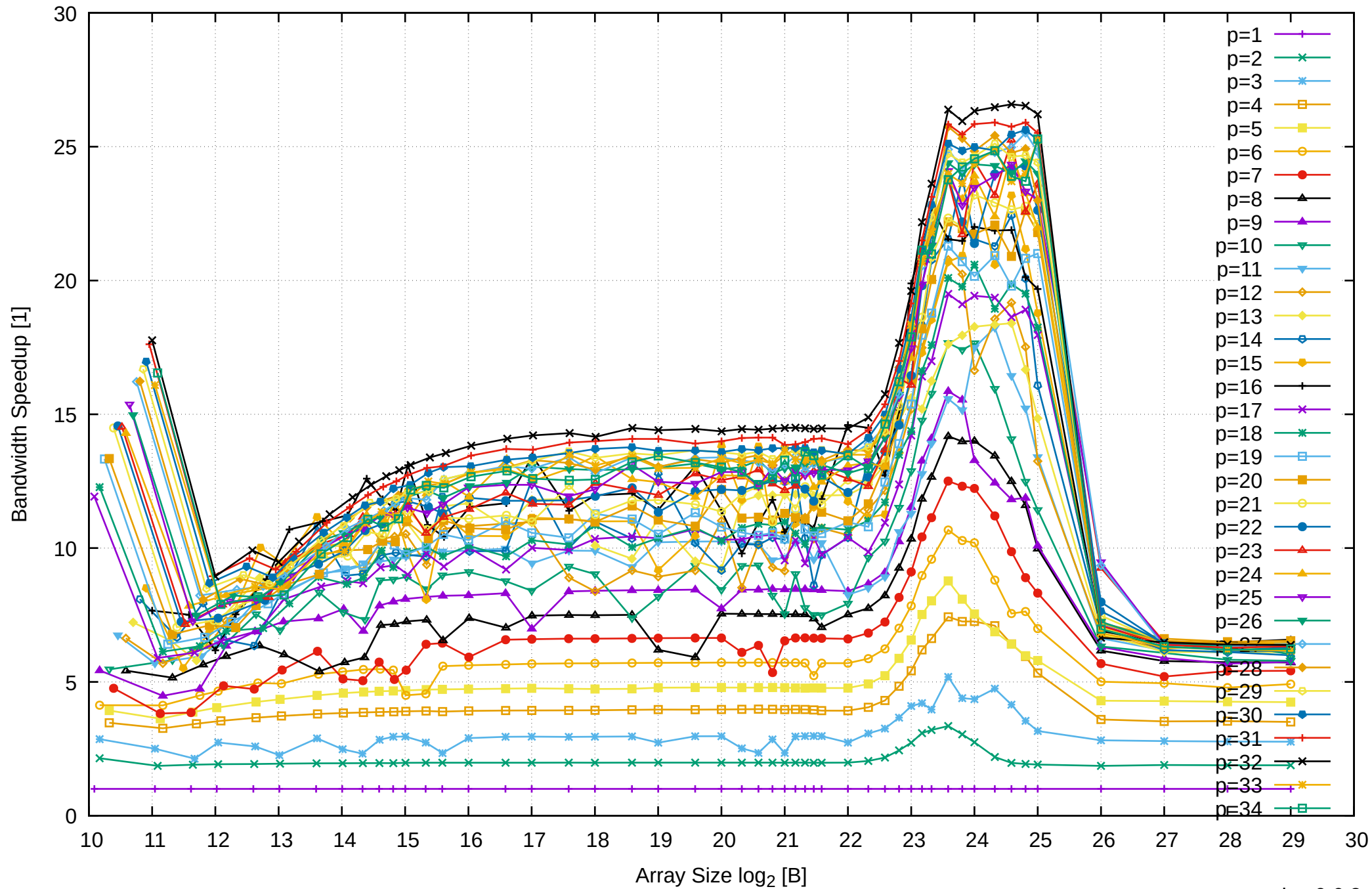
AMD Ryzen Threadripper 2950X 128GB - Parallel Memory Bandwidth - ScanRead32PtrSimpleLoop



AMD Ryzen Threadripper 2950X 128GB - Parallel Memory Access Time - ScanRead32PtrSimpleLoop

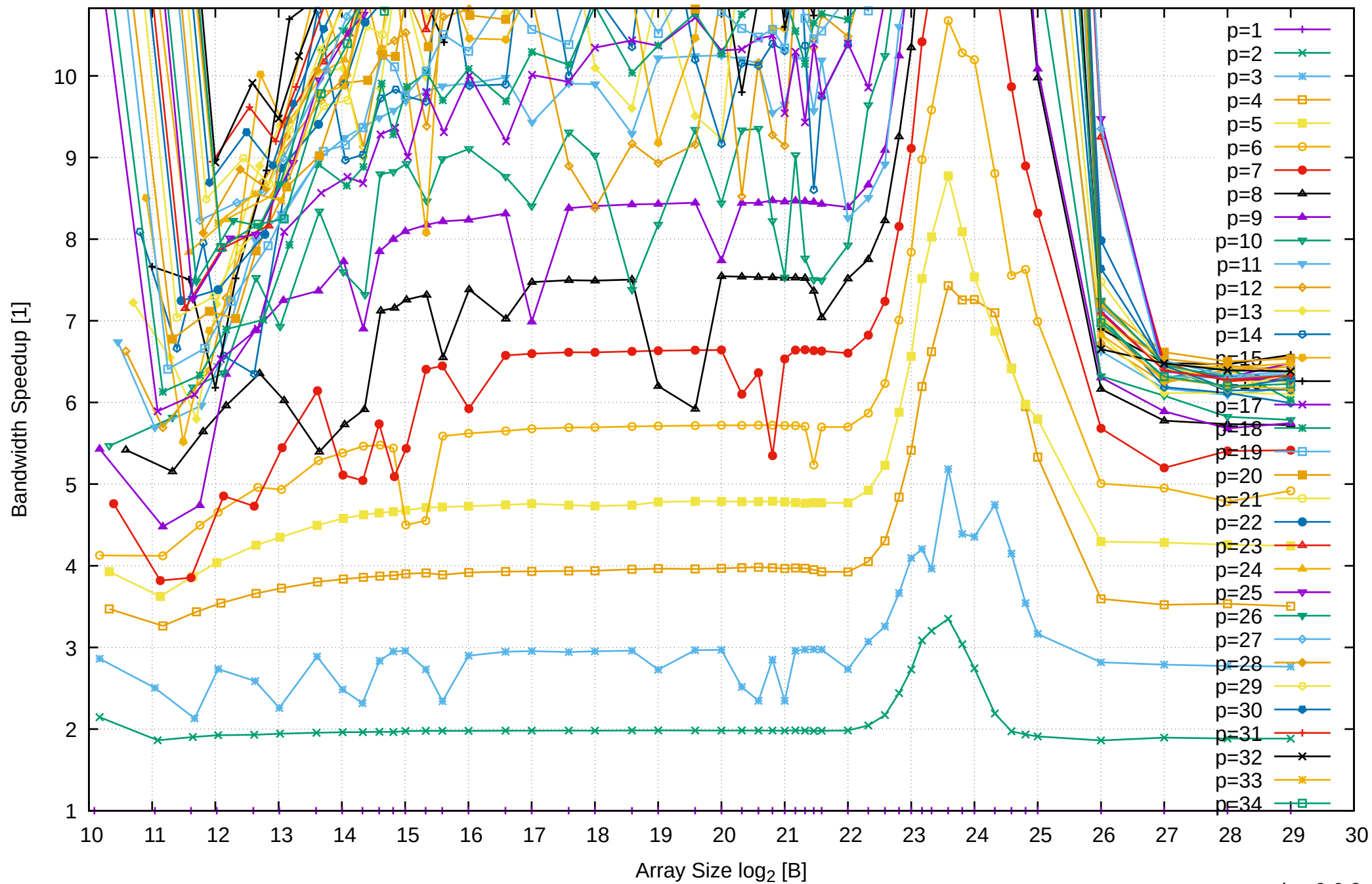


AMD Ryzen Threadripper 2950X 128GB - Speedup of Parallel Memory Bandwidth - ScanRead32PtrSimpleLoop

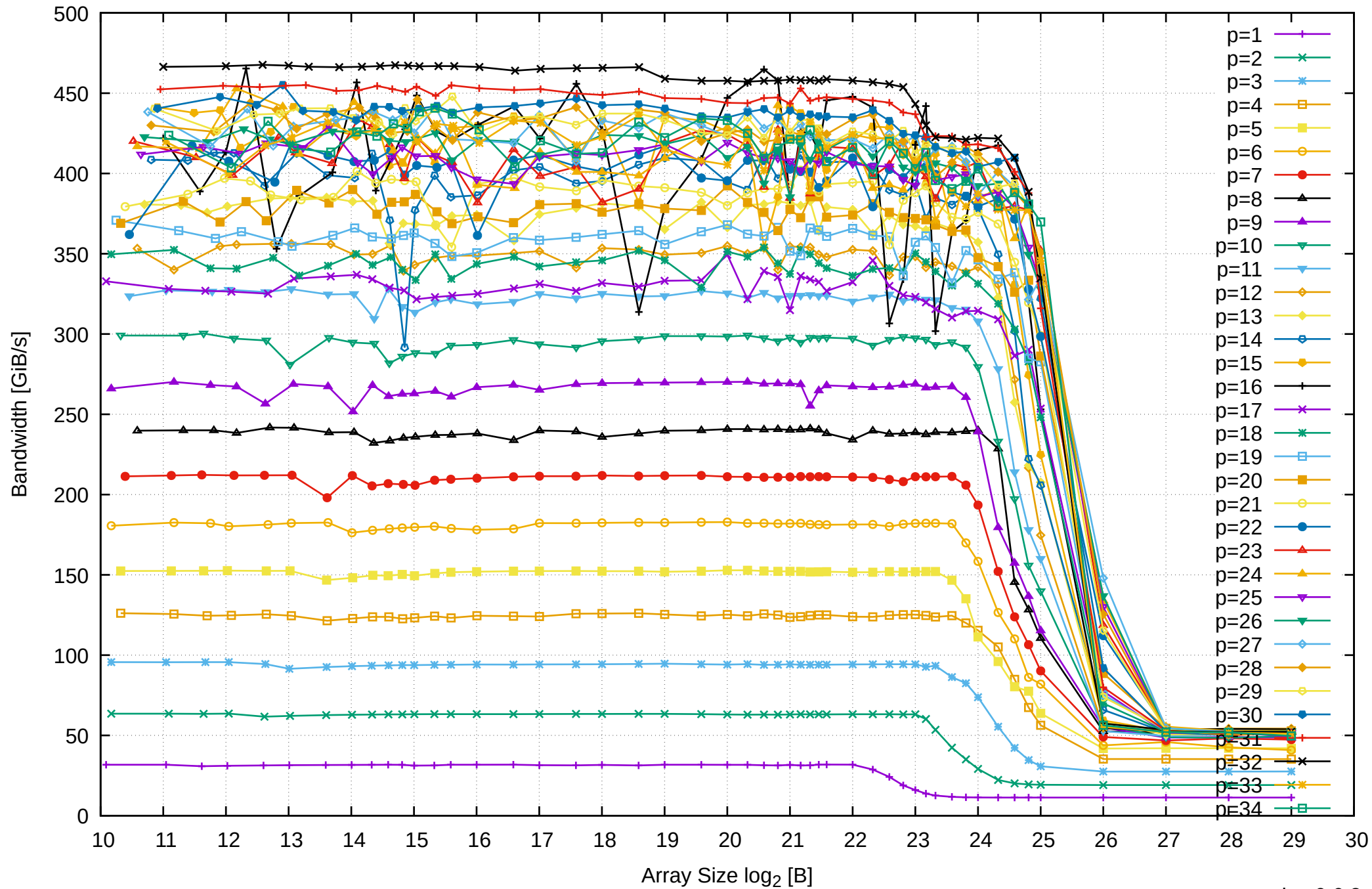




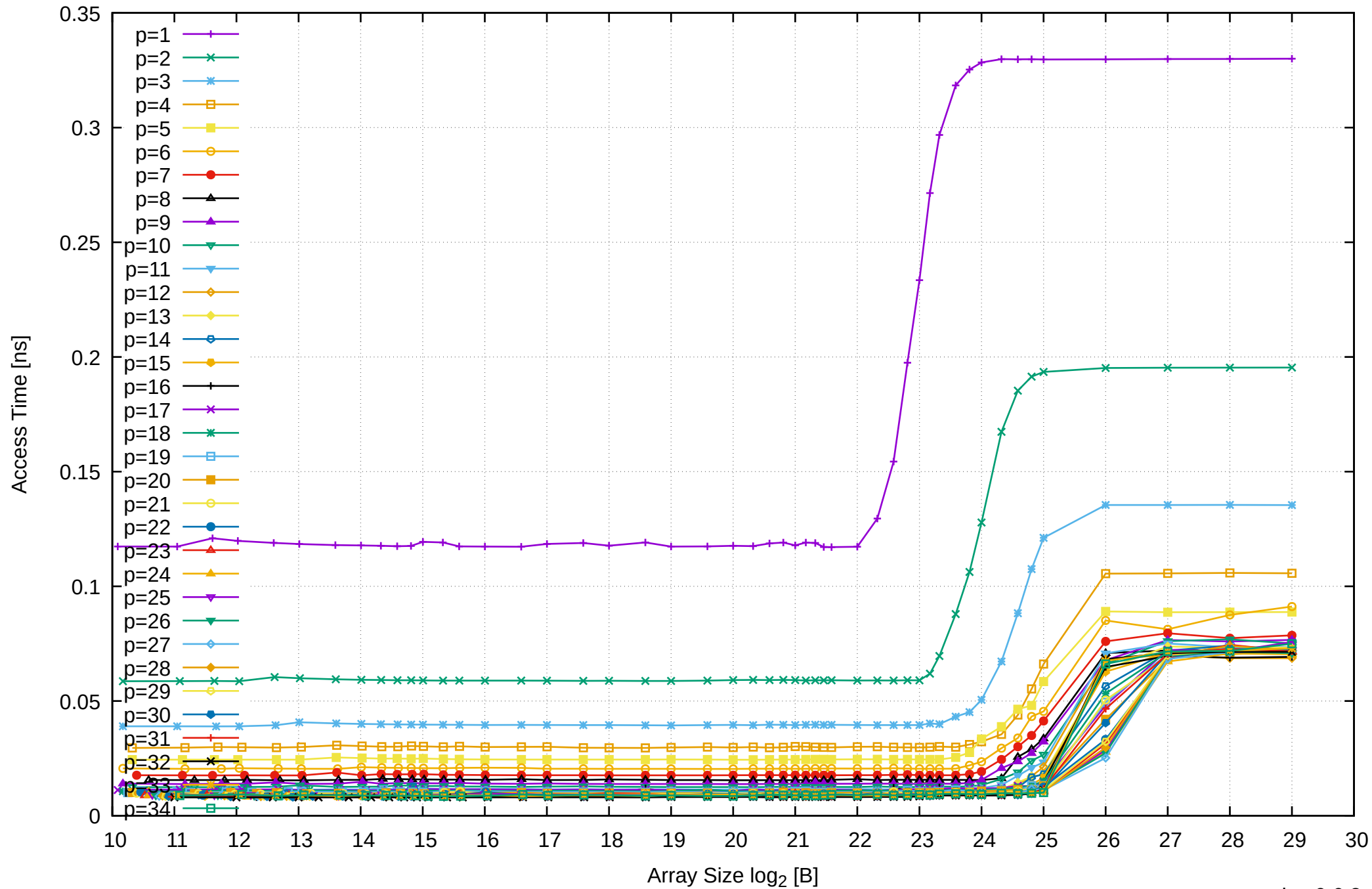
AMD Ryzen Threadripper 2950X 128GB - Speedup of Parallel Memory Bandwidth (enlarged) - ScanRead32PtrSimpleLoop



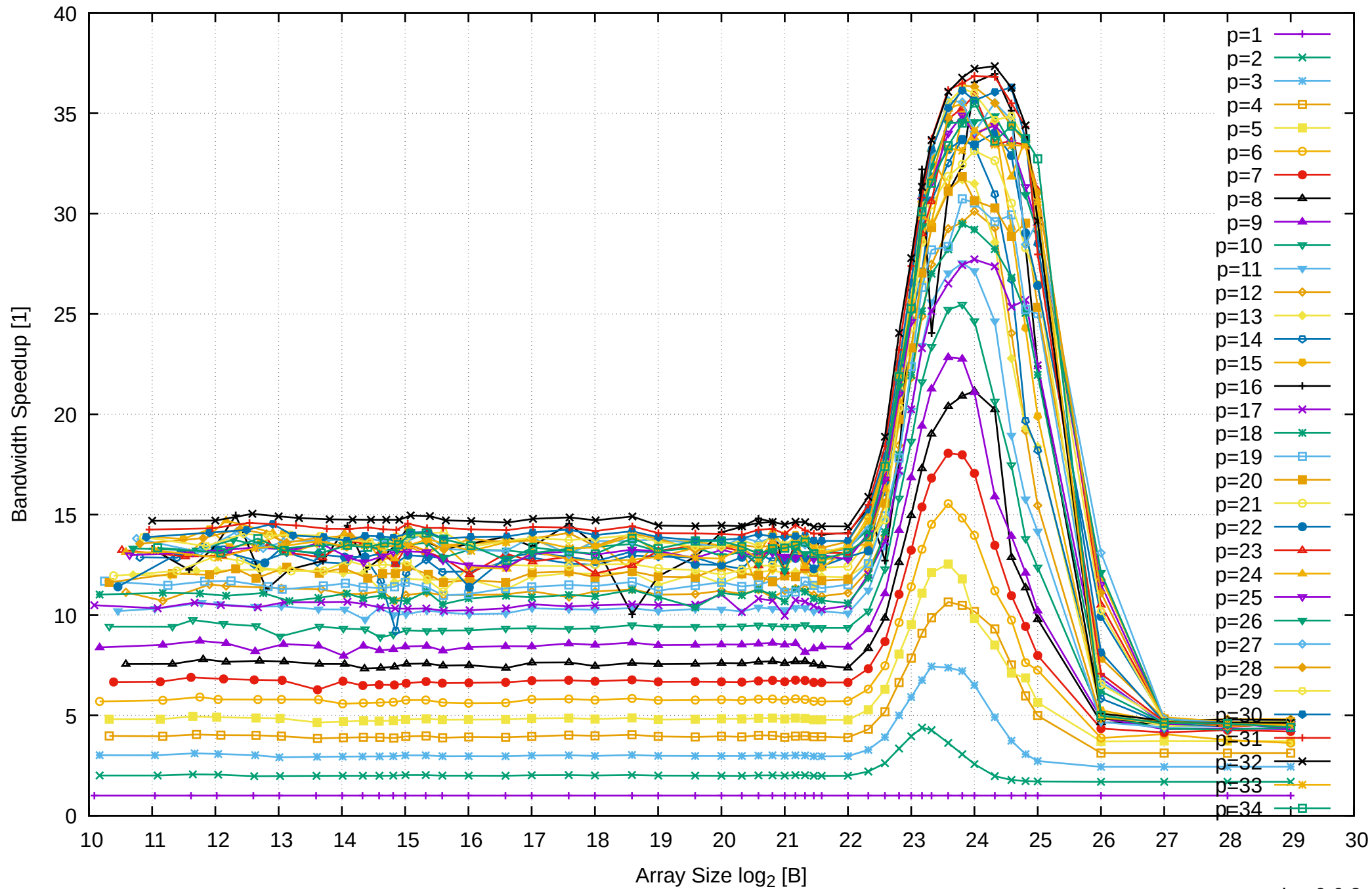
AMD Ryzen Threadripper 2950X 128GB - Parallel Memory Bandwidth - ScanRead32PtrUnrollLoop



AMD Ryzen Threadripper 2950X 128GB - Parallel Memory Access Time - ScanRead32PtrUnrollLoop

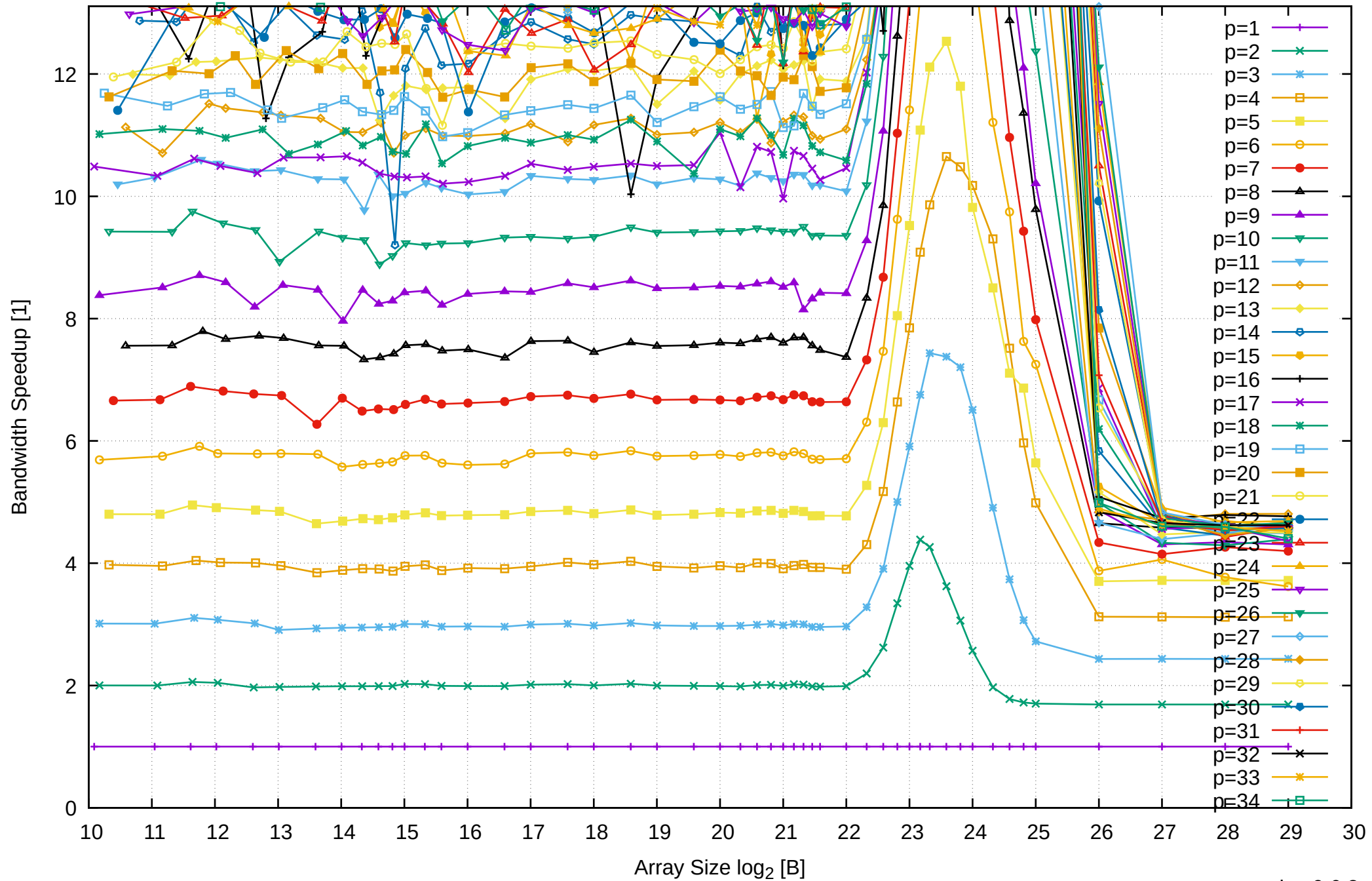


AMD Ryzen Threadripper 2950X 128GB - Speedup of Parallel Memory Bandwidth - ScanRead32PtrUnrollLoop

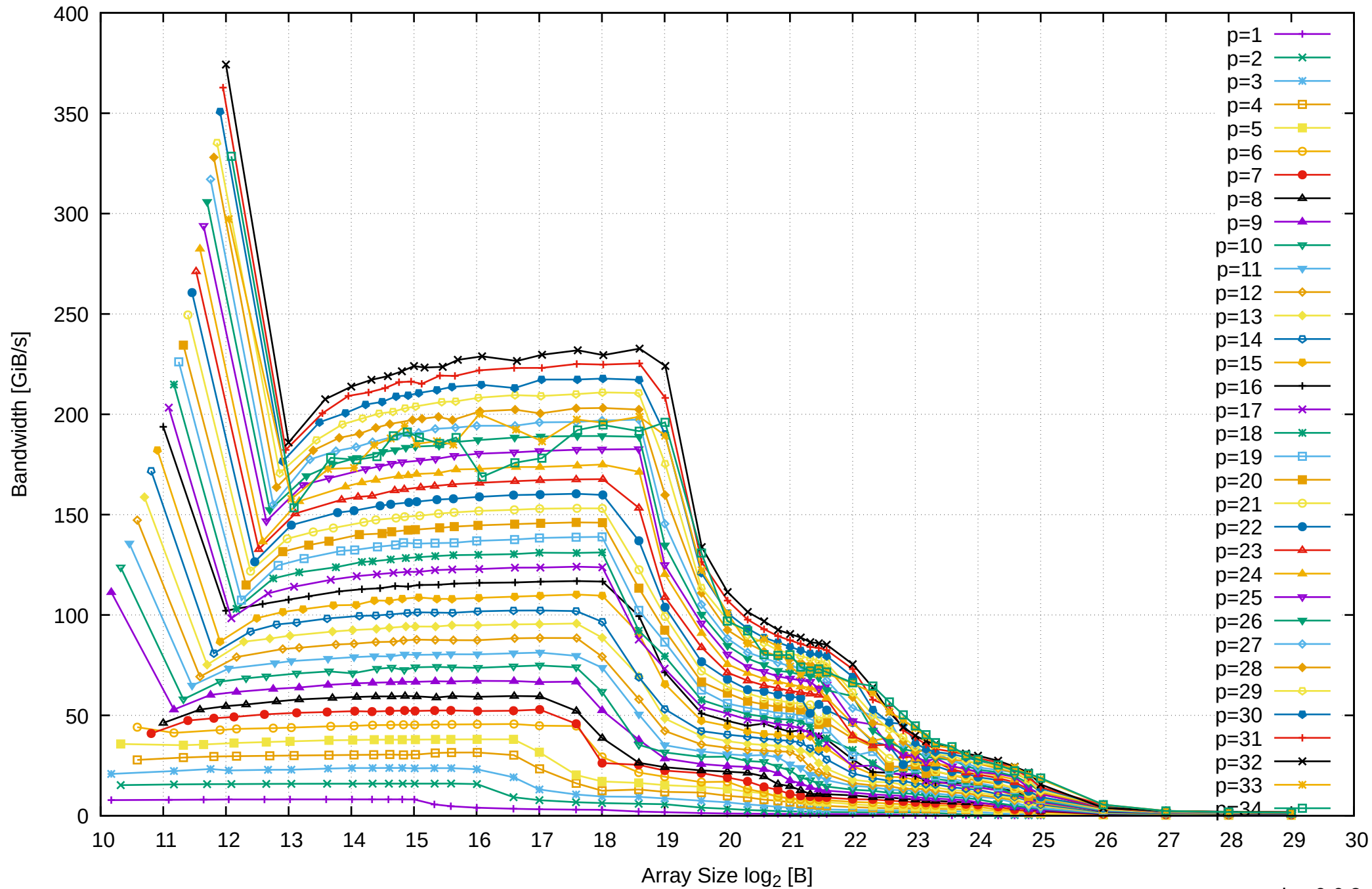




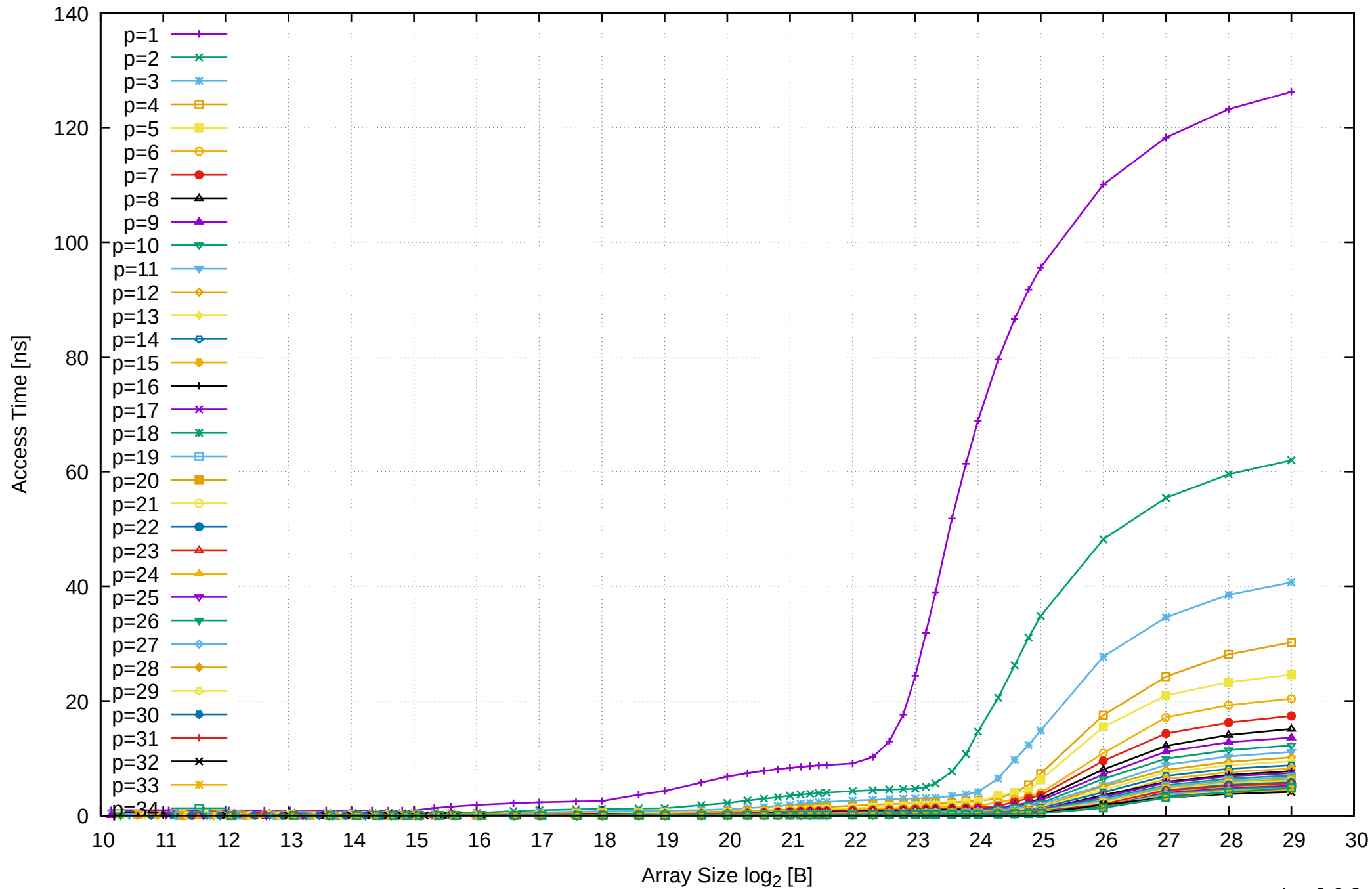
AMD Ryzen Threadripper 2950X 128GB - Speedup of Parallel Memory Bandwidth (enlarged) - ScanRead32PtrUnrollLoop



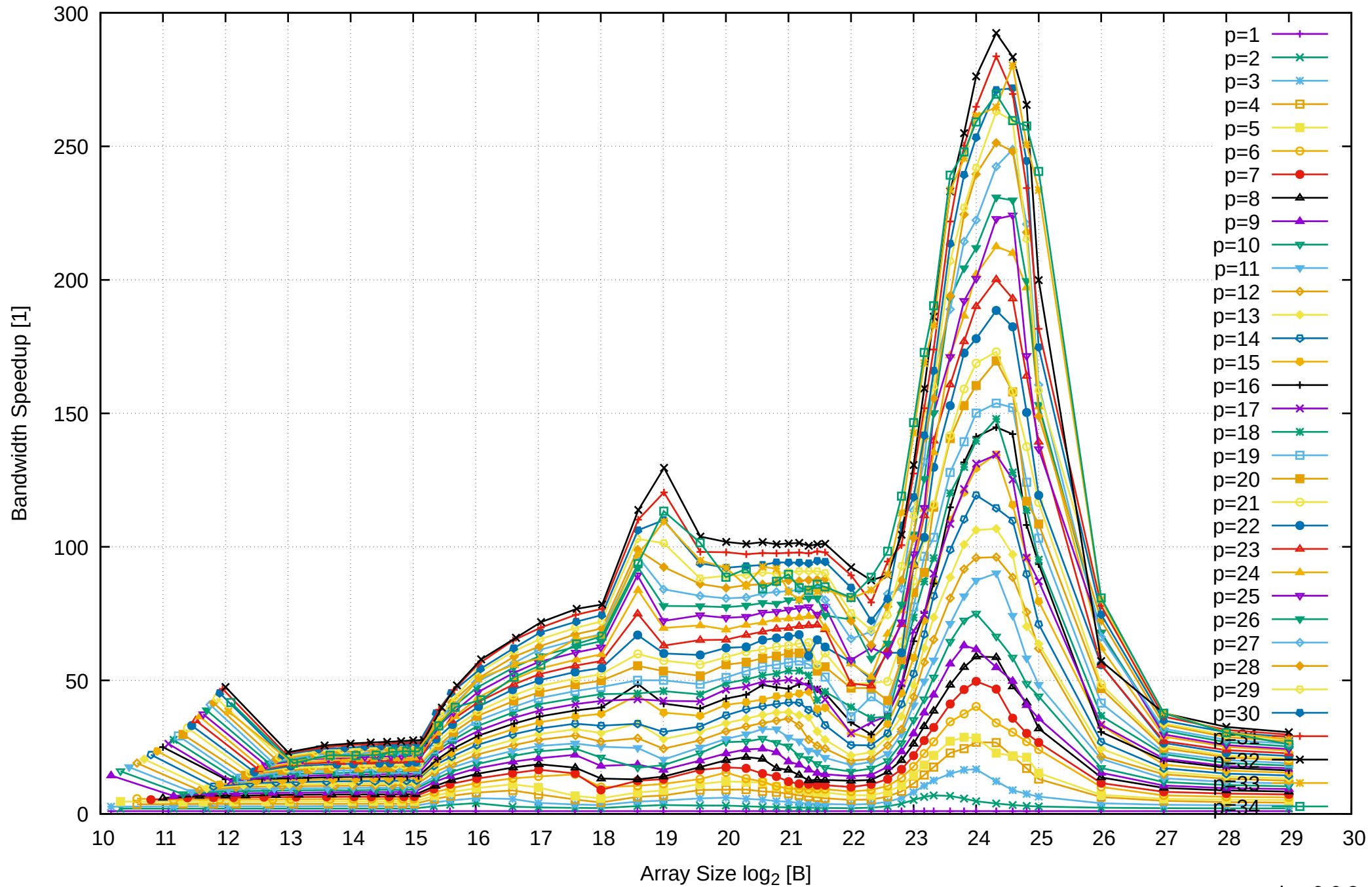
AMD Ryzen Threadripper 2950X 128GB - Parallel Memory Bandwidth - PermRead64SimpleLoop



AMD Ryzen Threadripper 2950X 128GB - Parallel Memory Access Time - PermRead64SimpleLoop

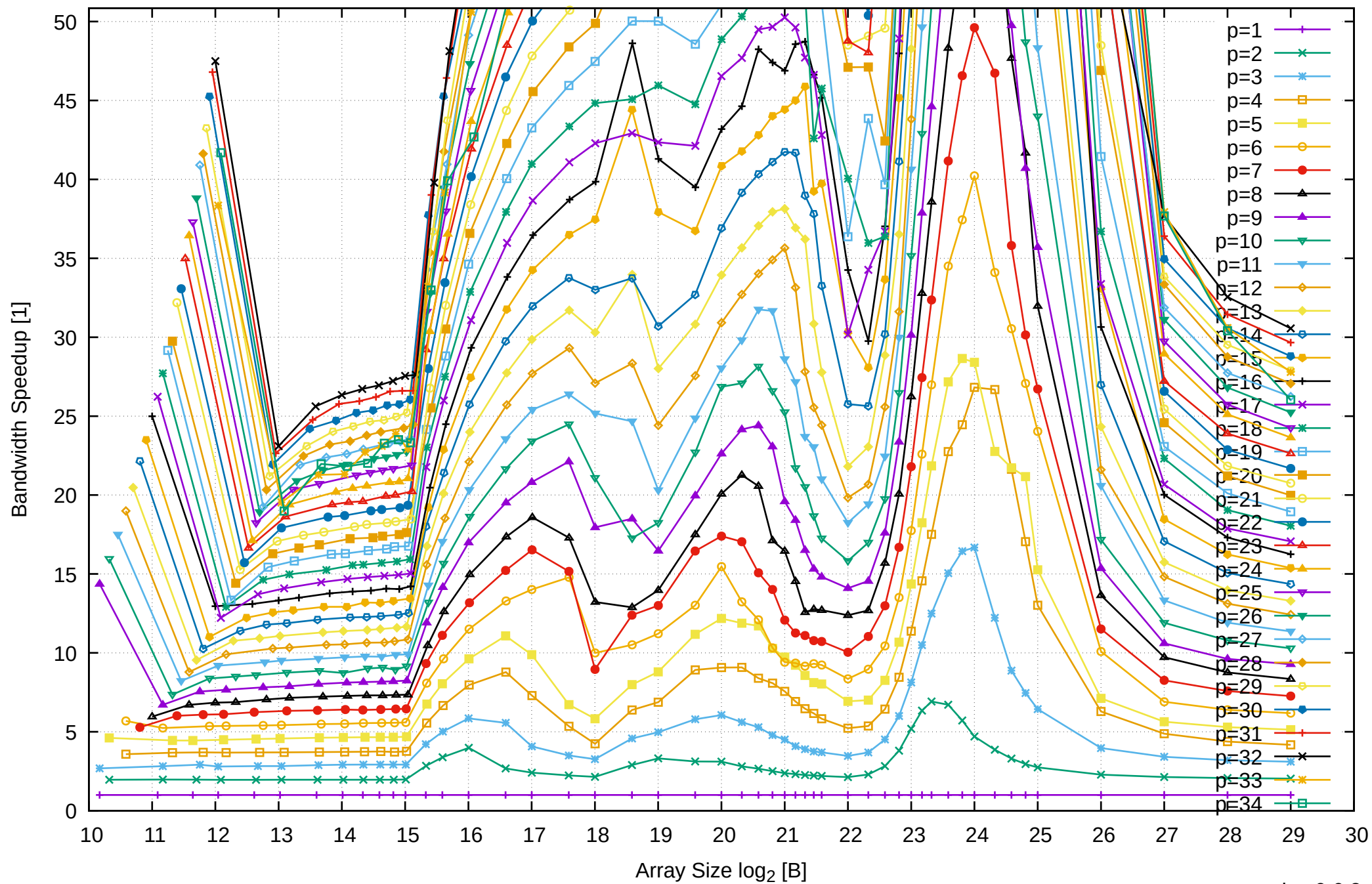


AMD Ryzen Threadripper 2950X 128GB - Speedup of Parallel Memory Bandwidth - PermRead64SimpleLoop

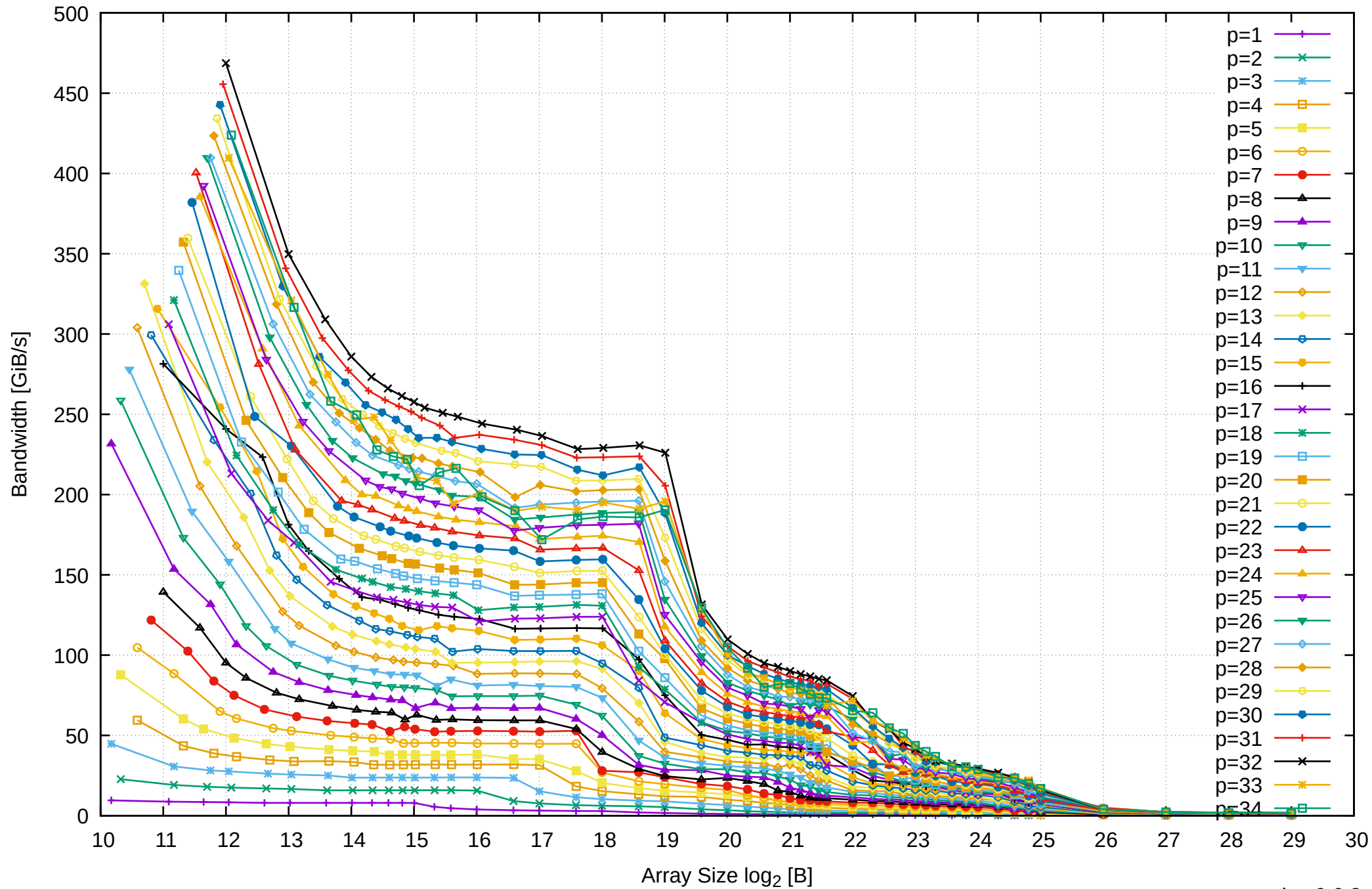




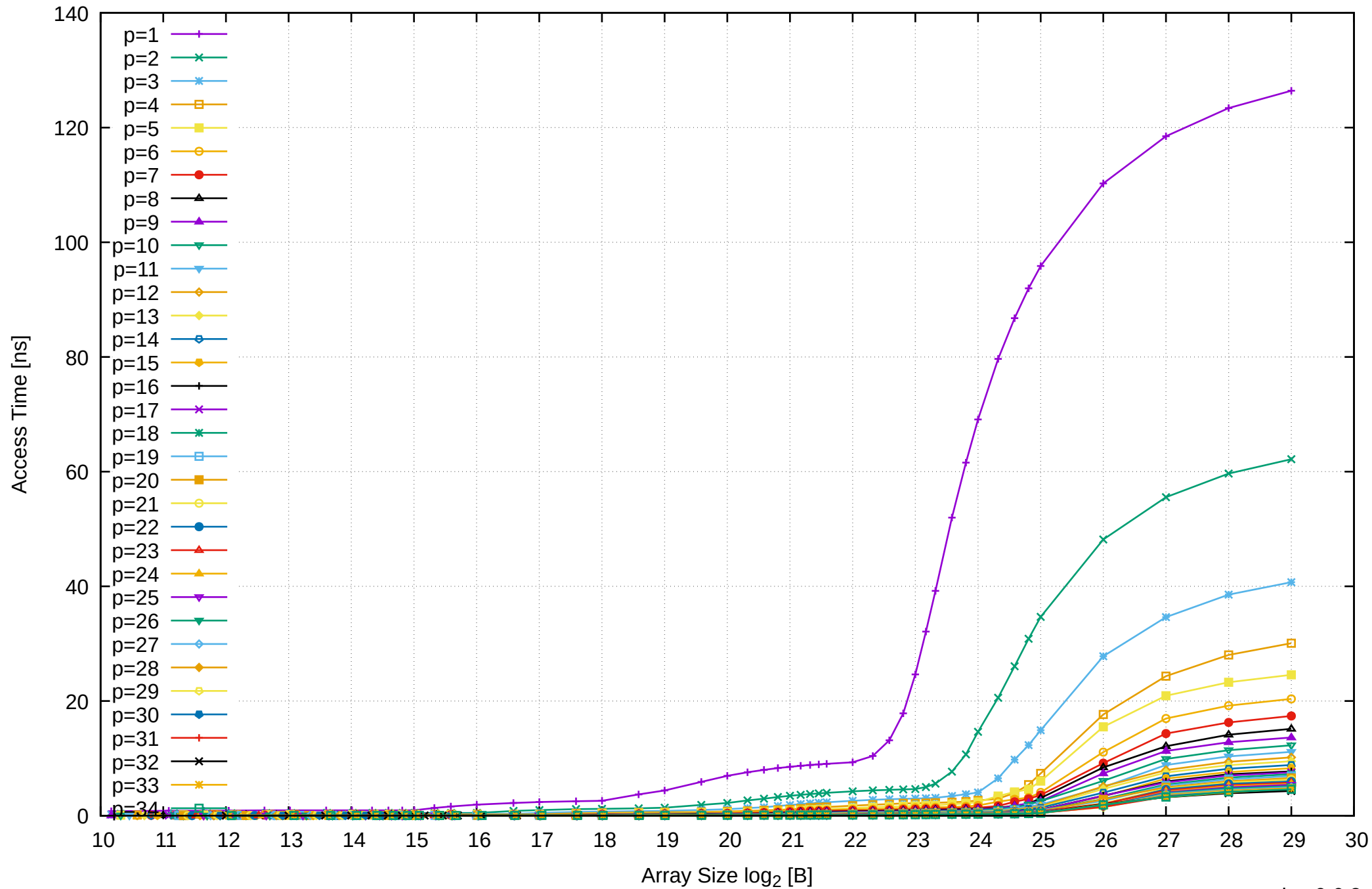
AMD Ryzen Threadripper 2950X 128GB - Speedup of Parallel Memory Bandwidth (enlarged) - PermRead64SimpleLoop



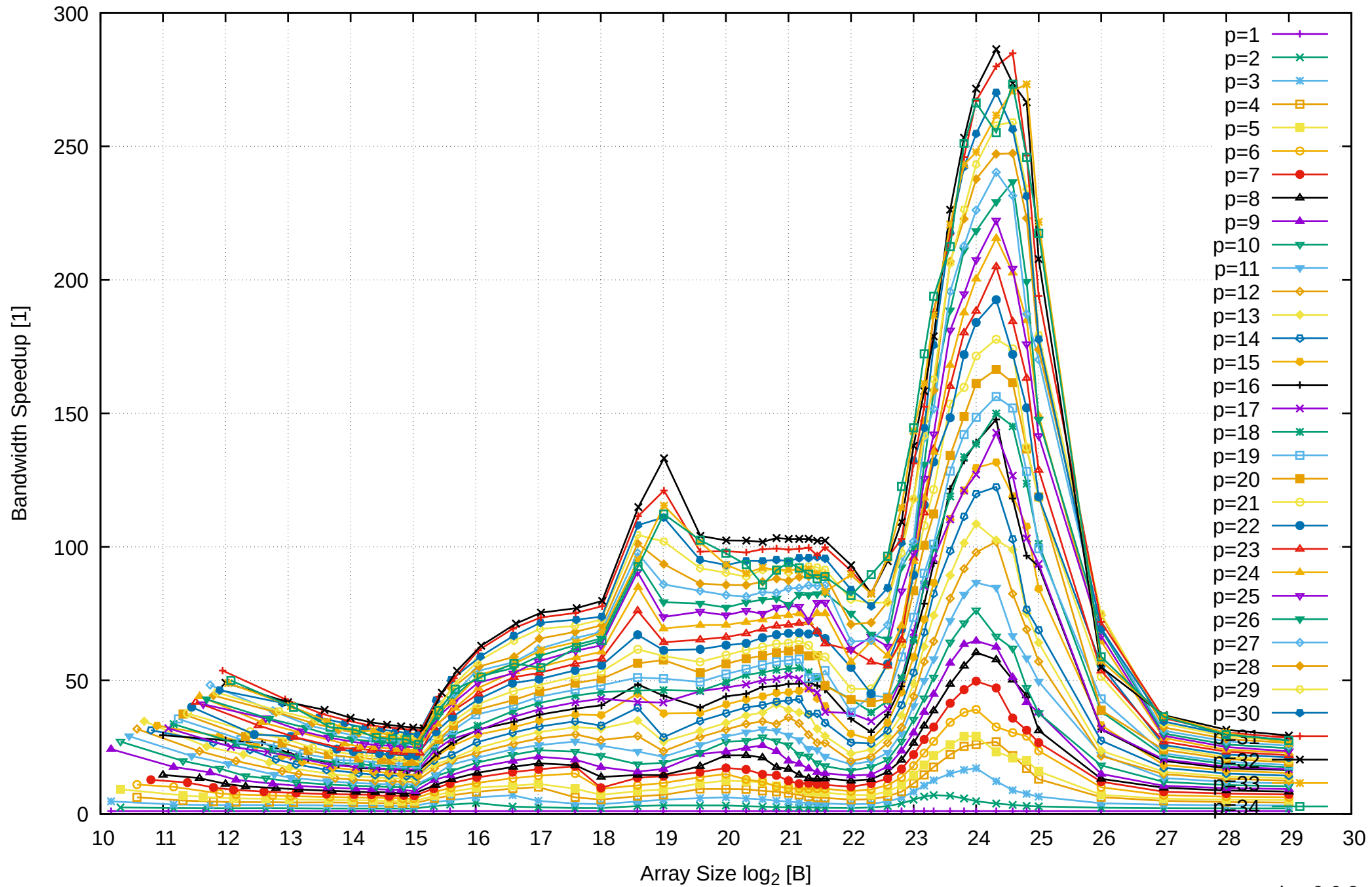
AMD Ryzen Threadripper 2950X 128GB - Parallel Memory Bandwidth - PermRead64UnrollLoop



AMD Ryzen Threadripper 2950X 128GB - Parallel Memory Access Time - PermRead64UnrollLoop



AMD Ryzen Threadripper 2950X 128GB - Speedup of Parallel Memory Bandwidth - PermRead64UnrollLoop





AMD Ryzen Threadripper 2950X 128GB - Speedup of Parallel Memory Bandwidth (enlarged) - PermRead64UnrollLoop

