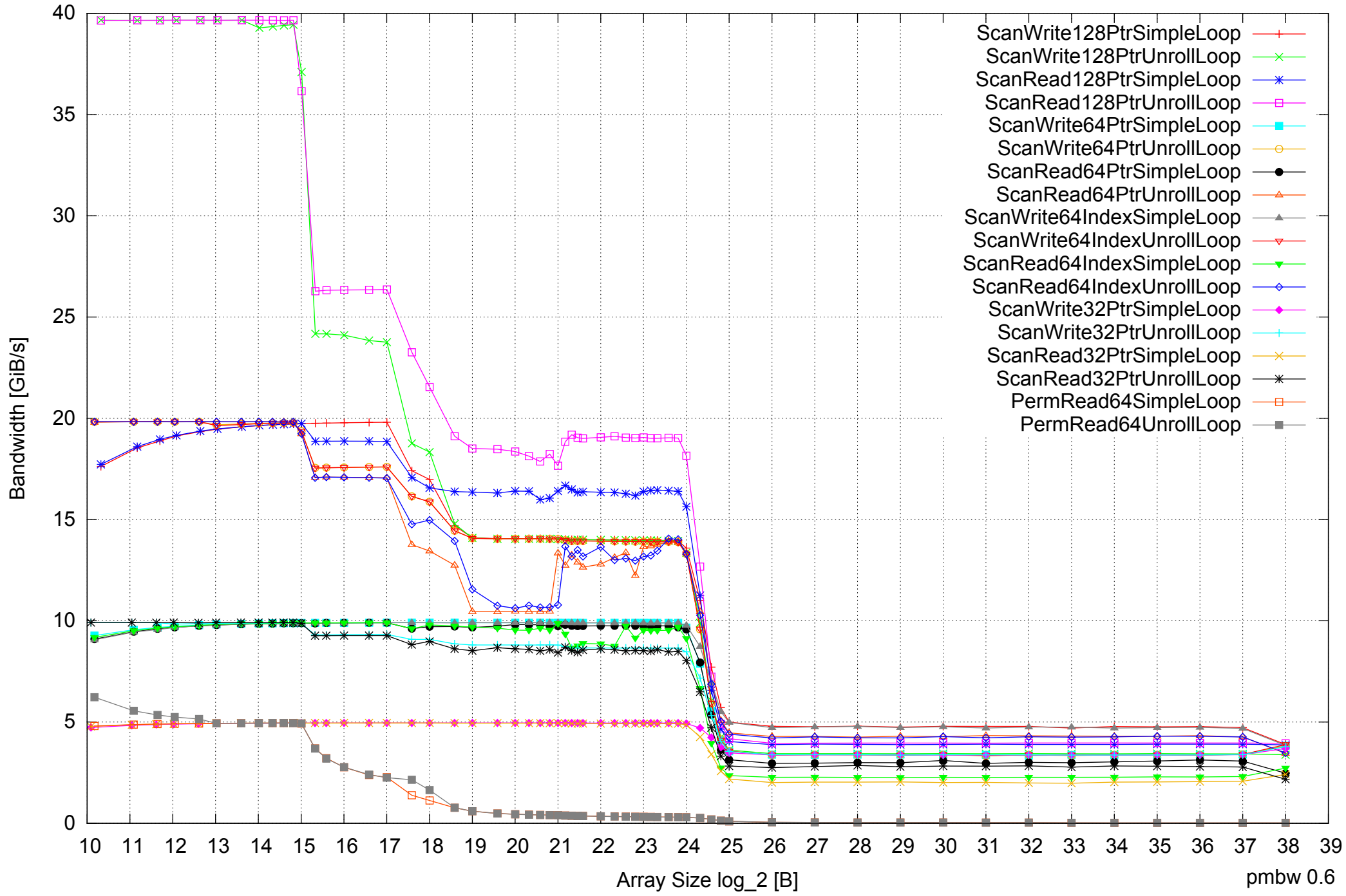
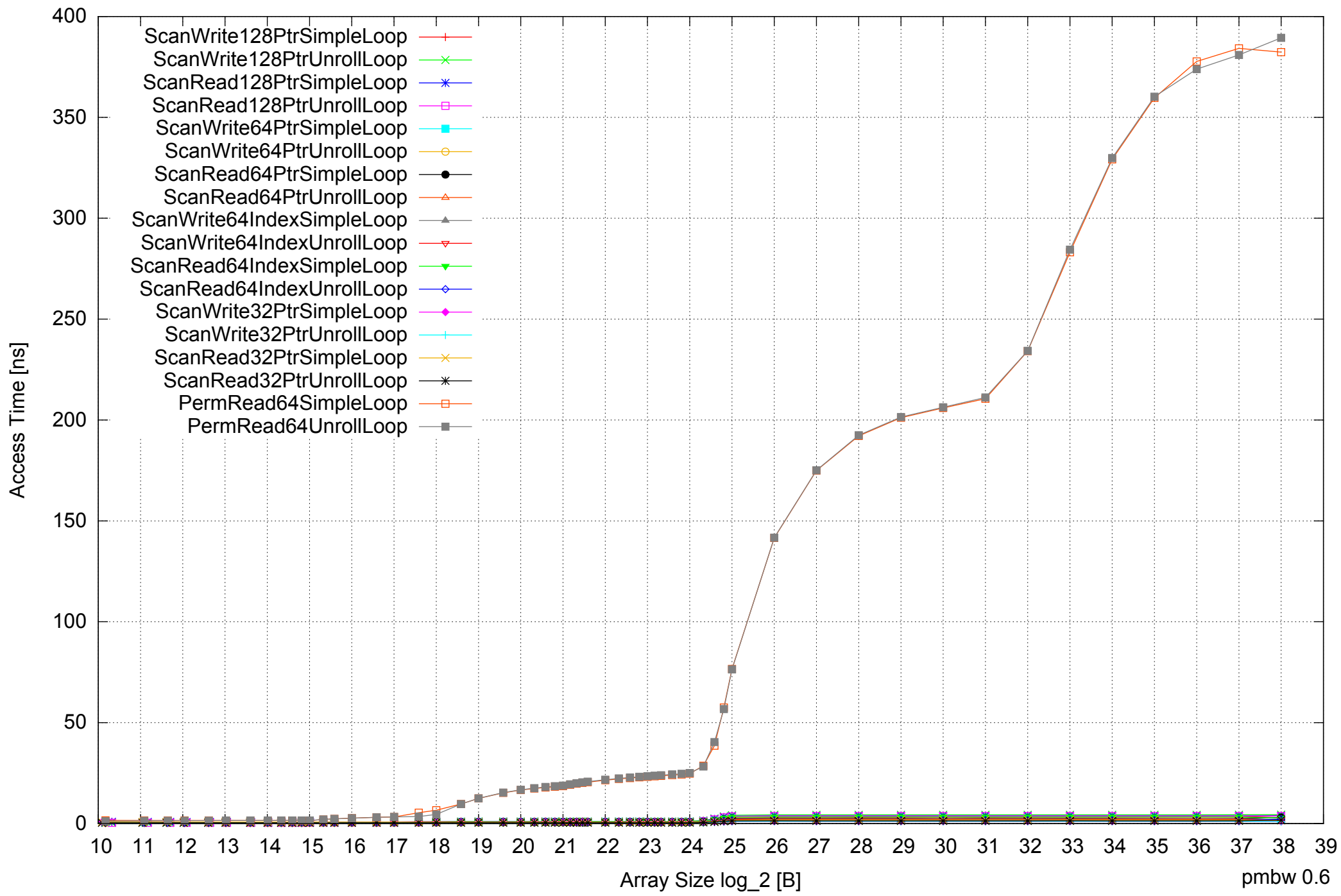


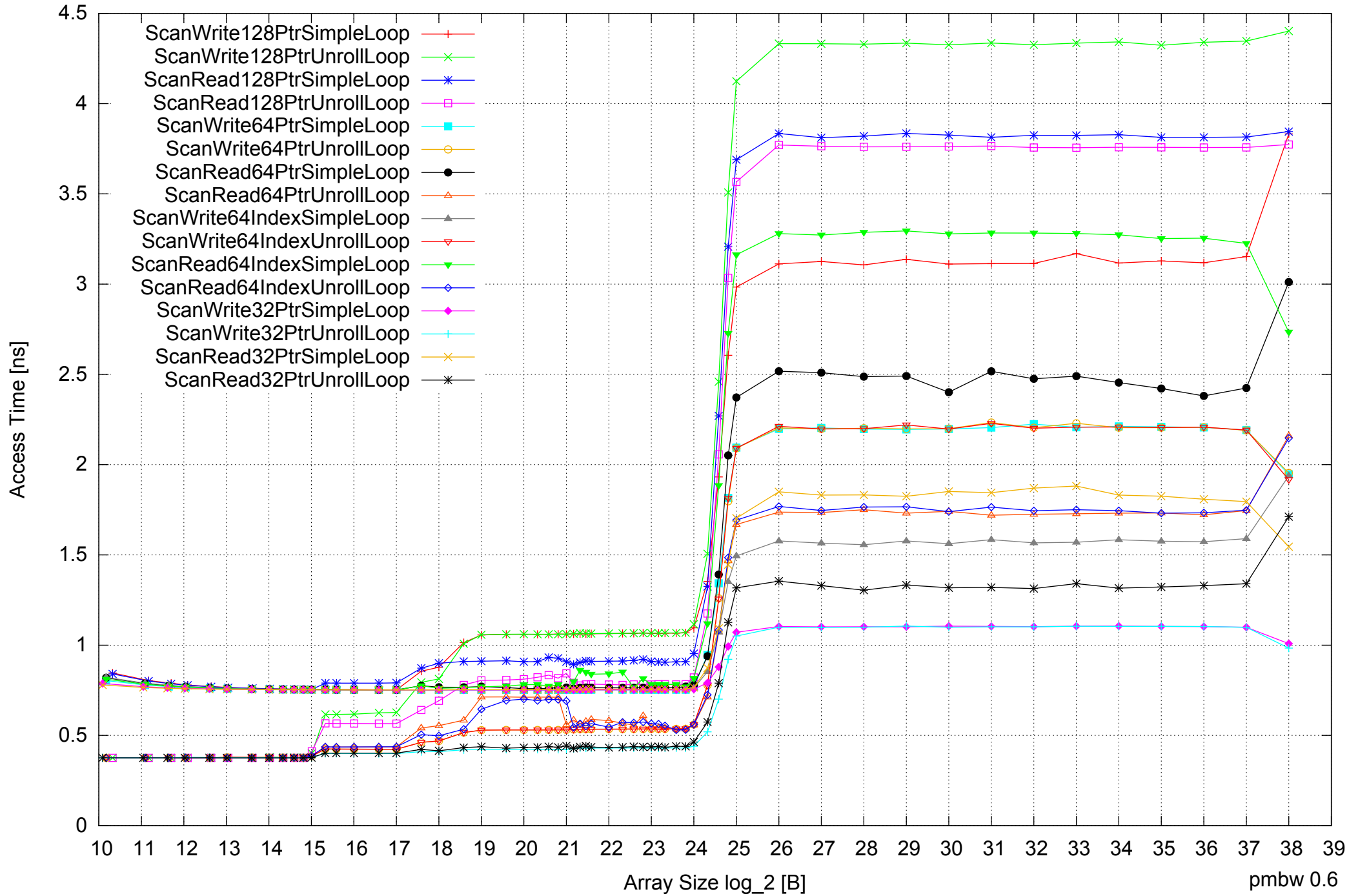
Intel Xeon E7-8837 512GB - One Thread Memory Bandwidth



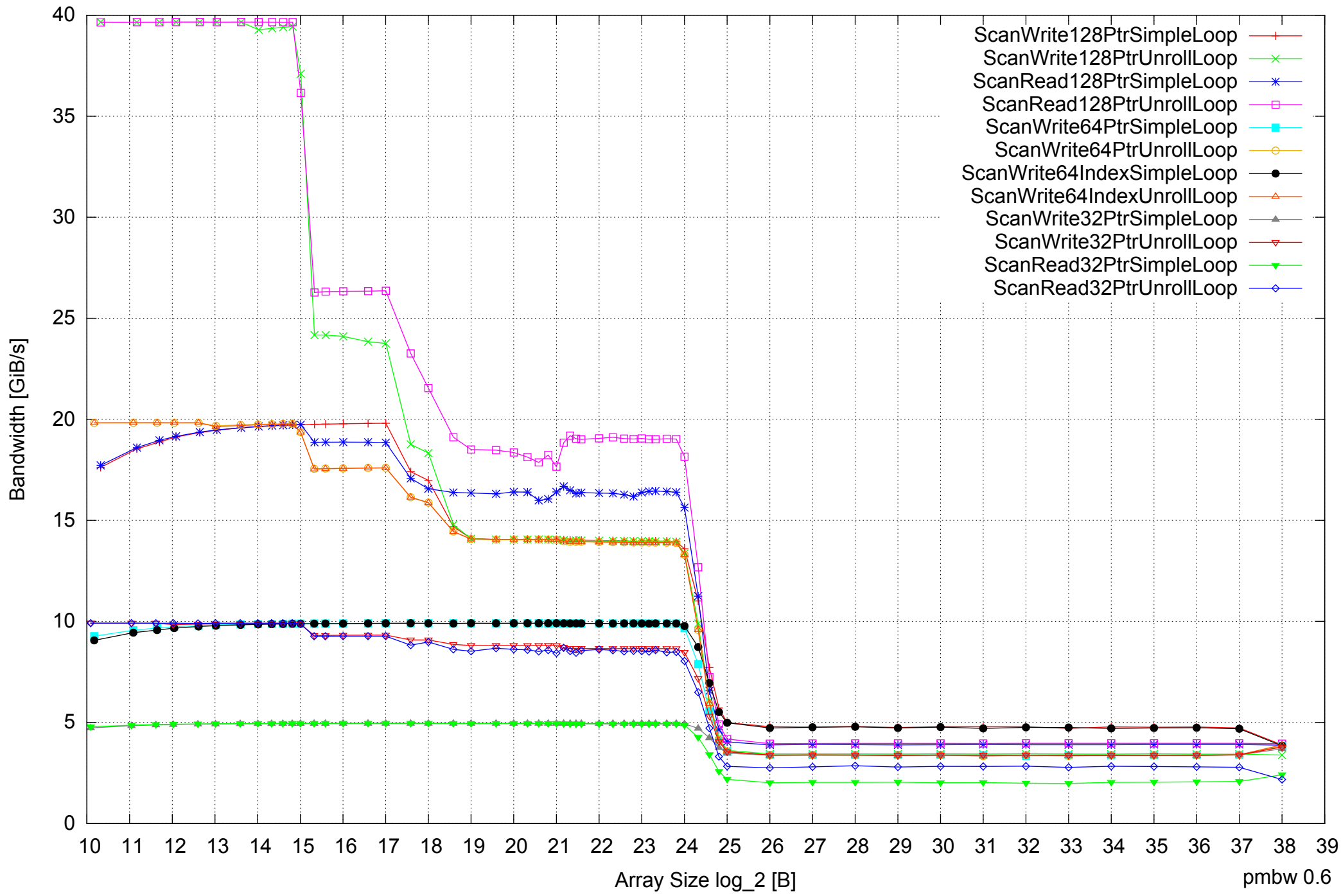
Intel Xeon E7-8837 512GB - One Thread Memory Latency



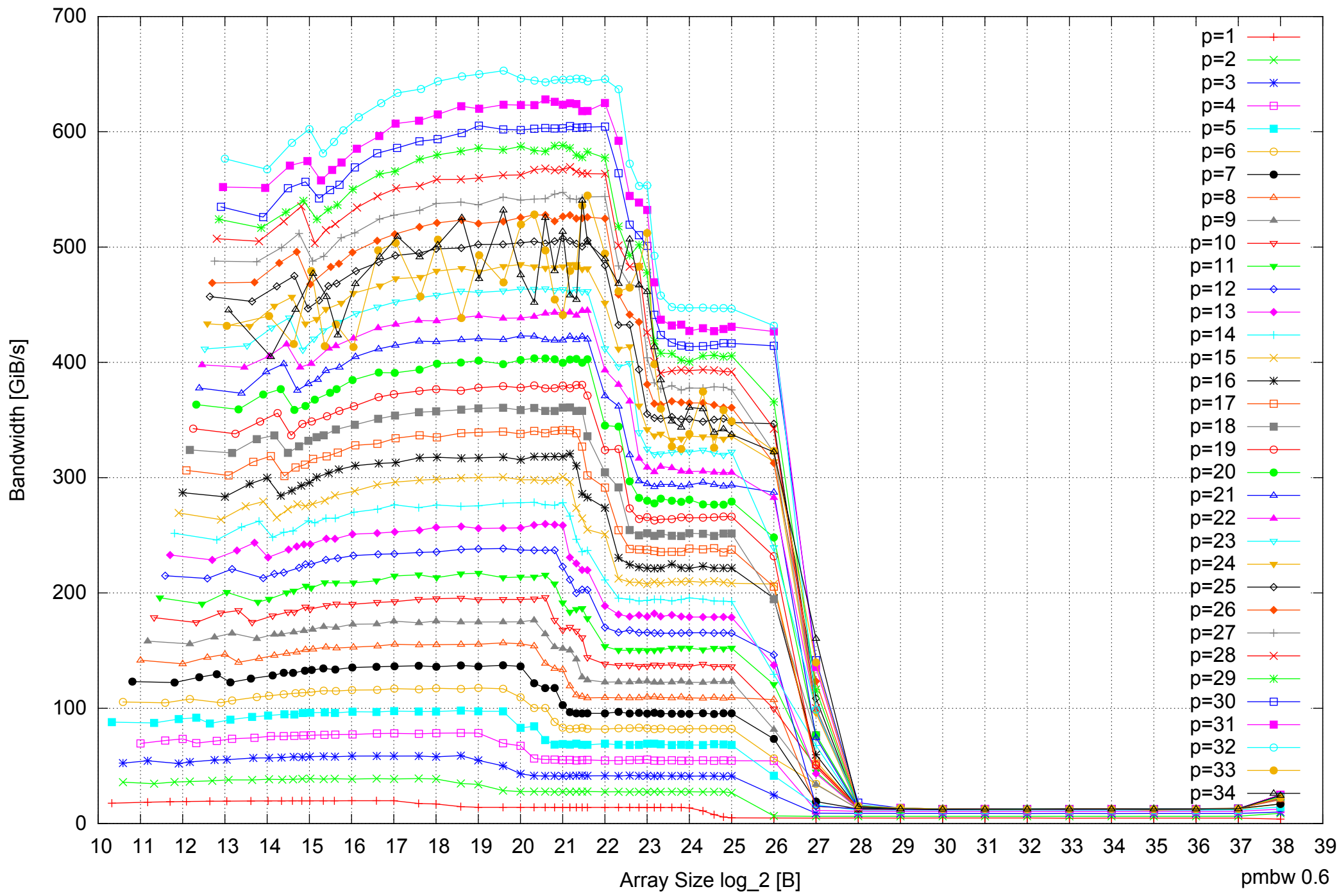
Intel Xeon E7-8837 512GB - One Thread Memory Latency (excluding Permutation)



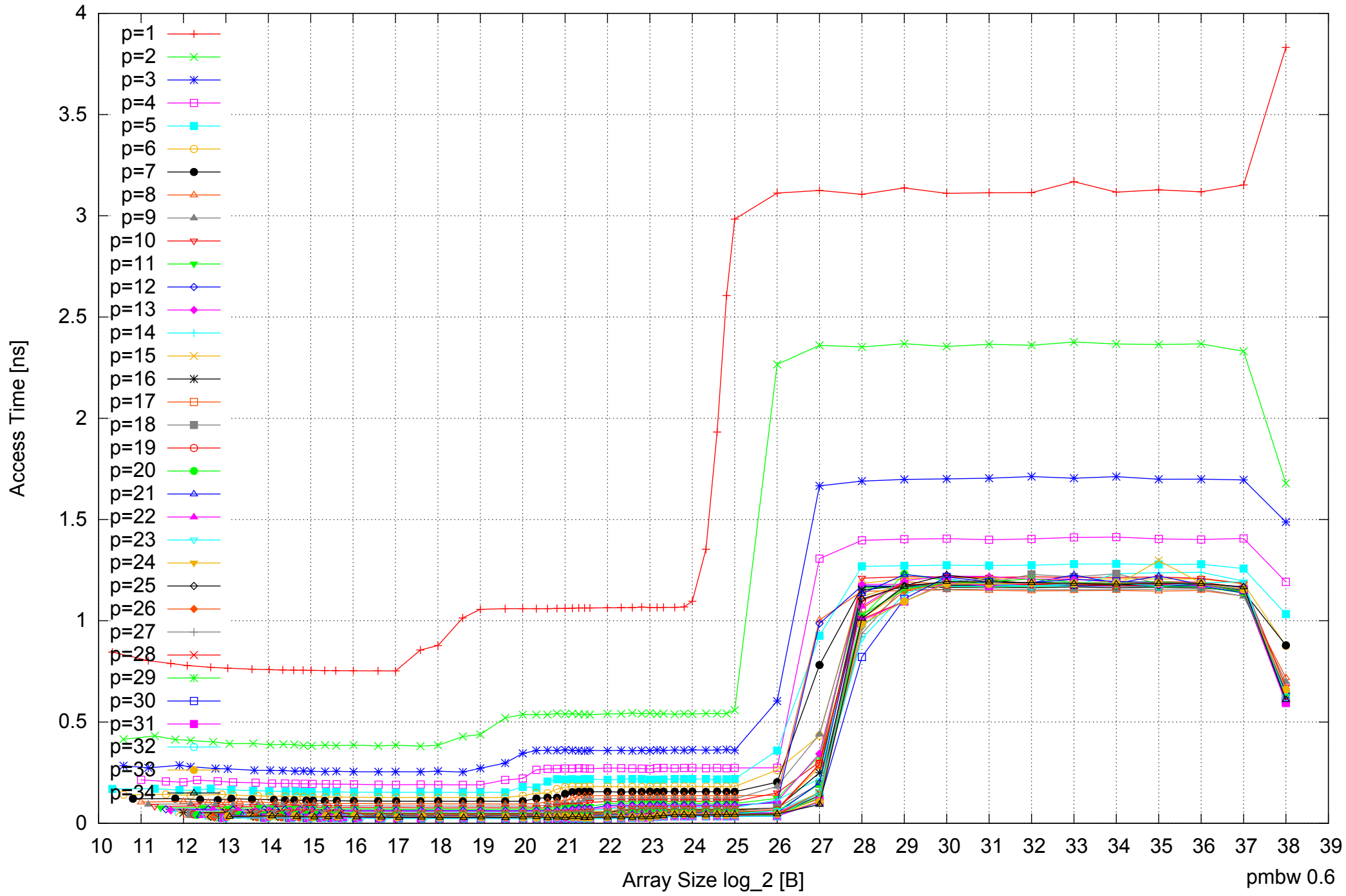
Intel Xeon E7-8837 512GB - One Thread Memory Bandwidth (only 64-bit Reads)



Intel Xeon E7-8837 512GB - Memory Bandwidth - ScanWrite128PtrSimpleLoop

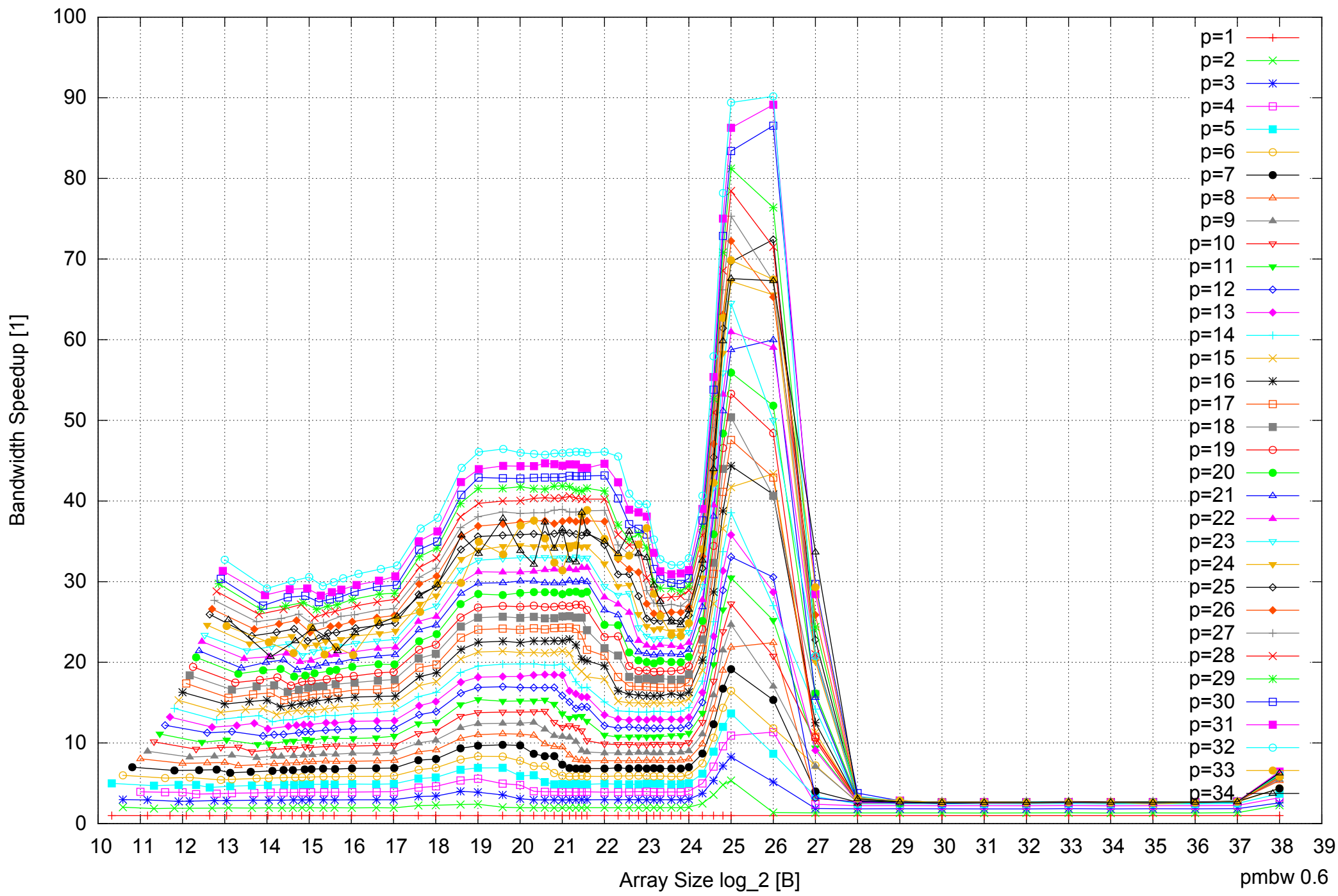


Intel Xeon E7-8837 512GB - Memory Latency - ScanWrite128PtrSimpleLoop

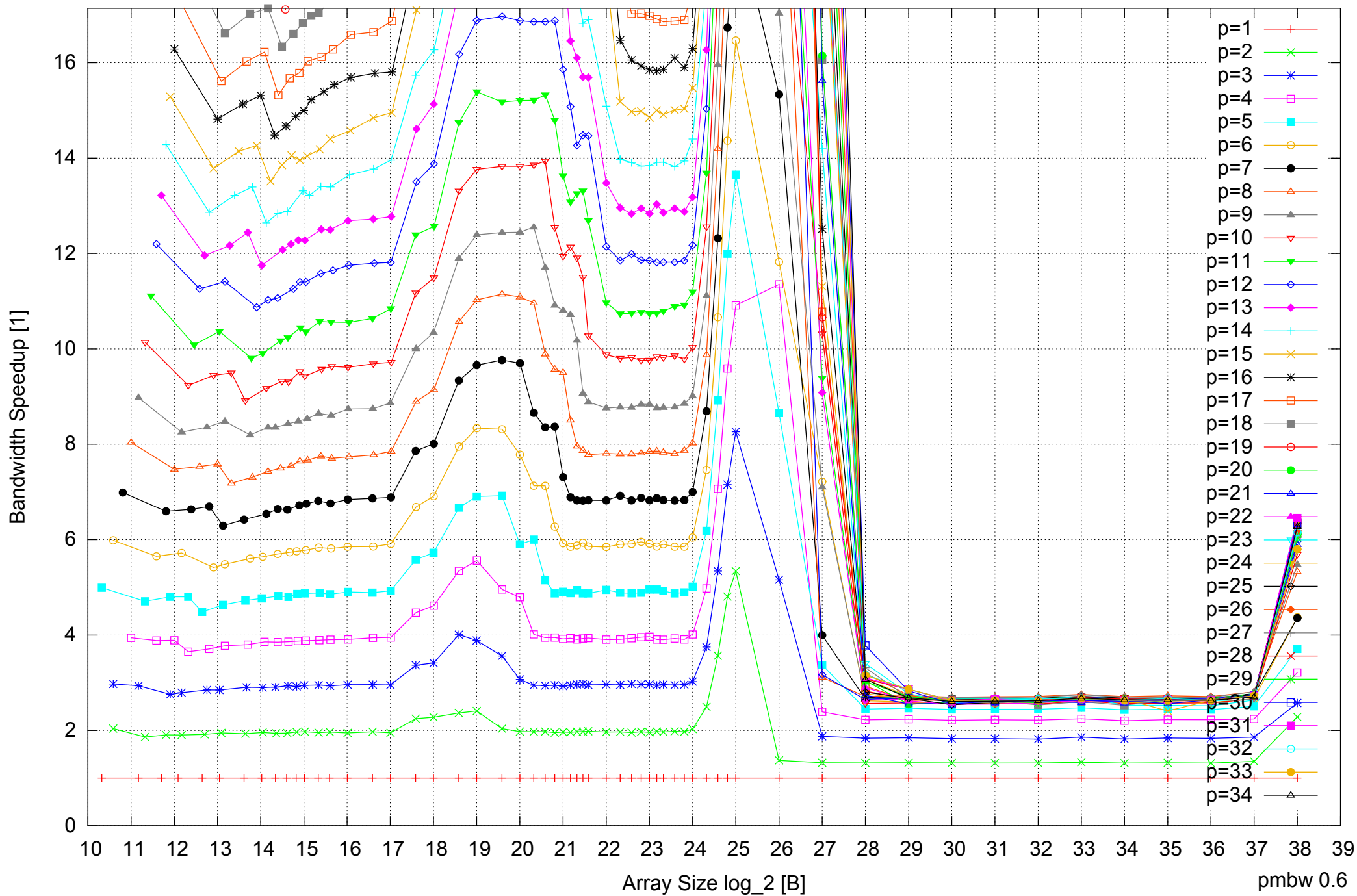




Intel Xeon E7-8837 512GB - Speedup of Memory Bandwidth - ScanWrite128PtrSimpleLoop

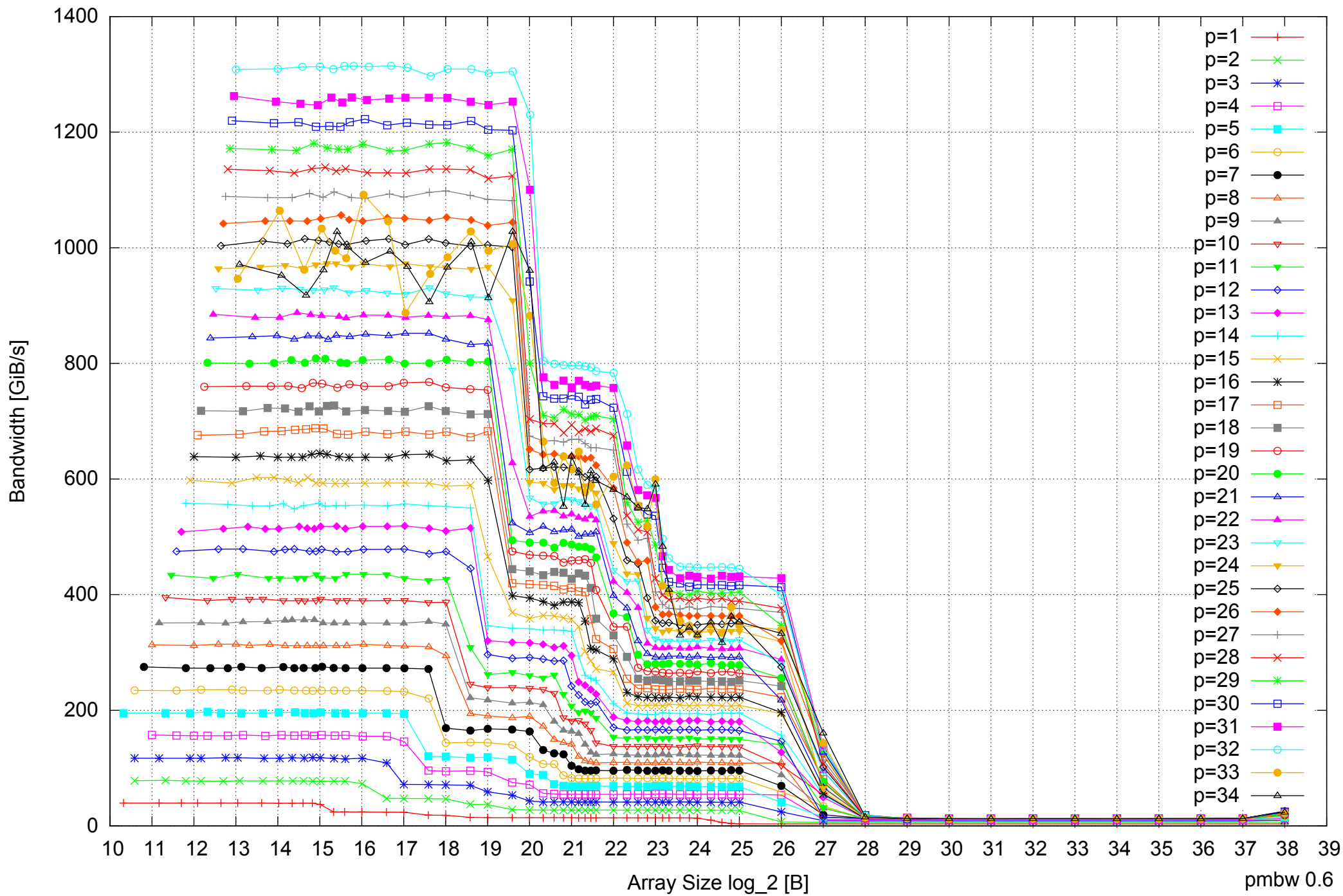


Intel Xeon E7-8837 512GB - Speedup of Memory Bandwidth (enlarged) - ScanWrite128PtrSimpleLoop

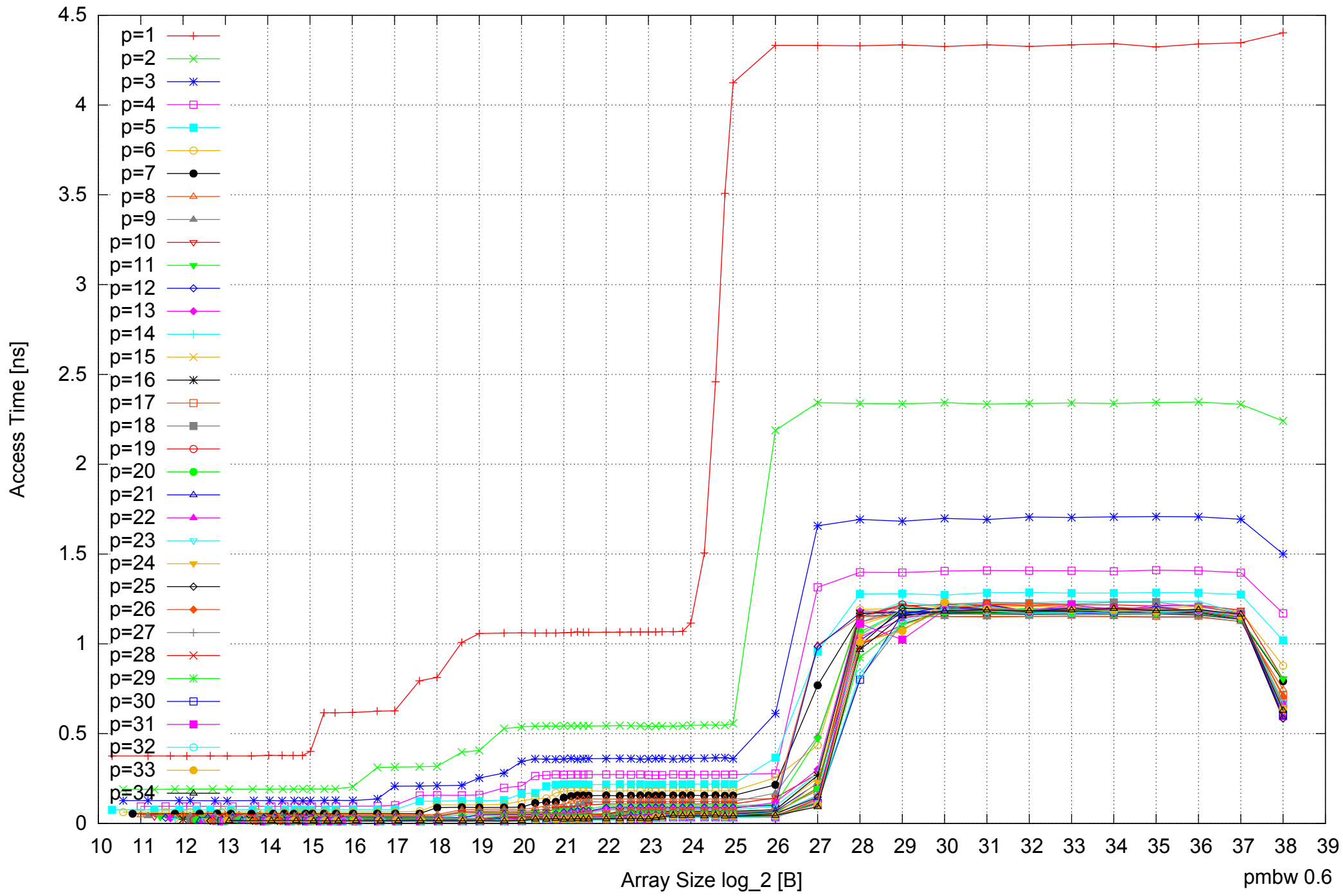




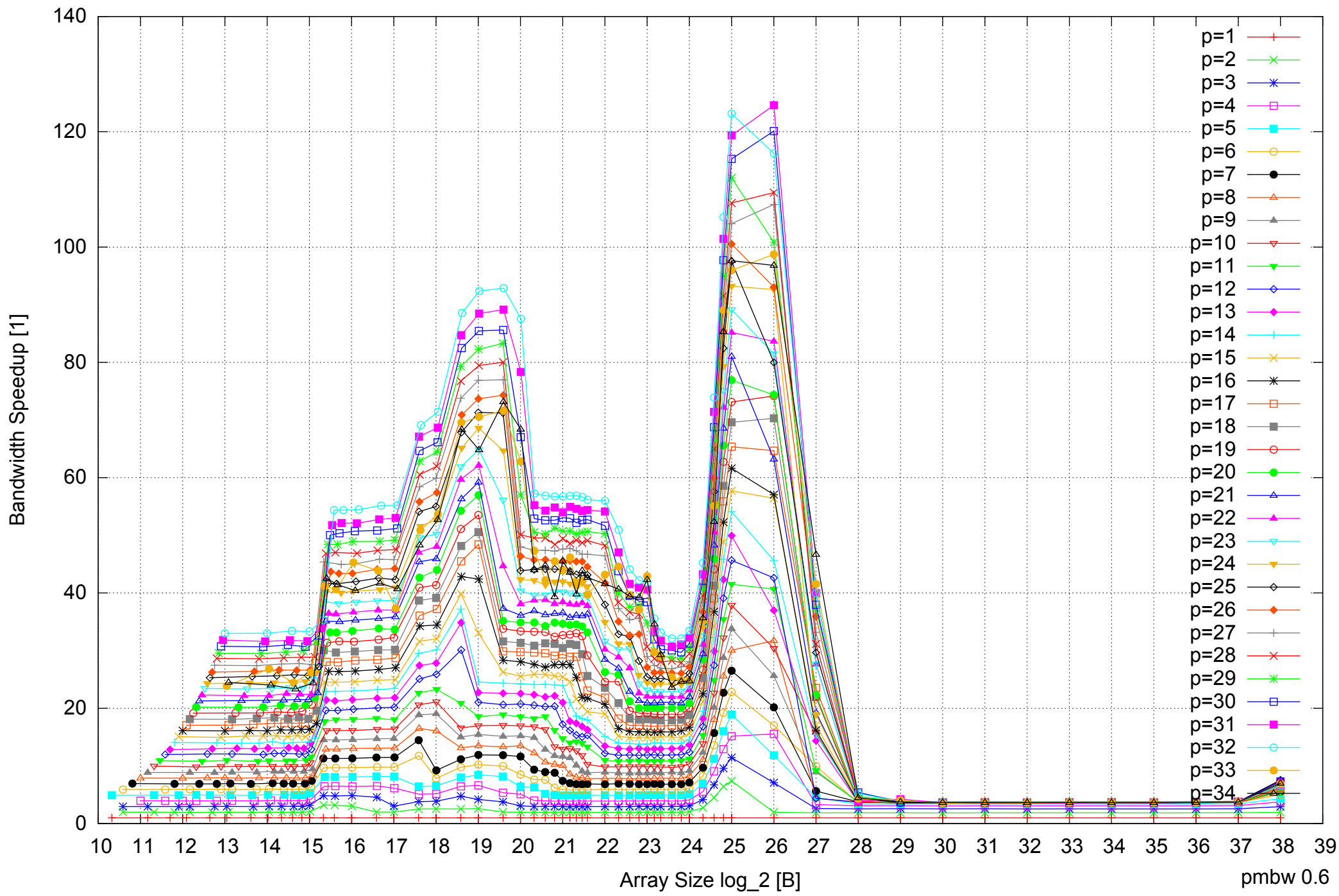
Intel Xeon E7-8837 512GB - Memory Bandwidth - ScanWrite128PtrUnrollLoop



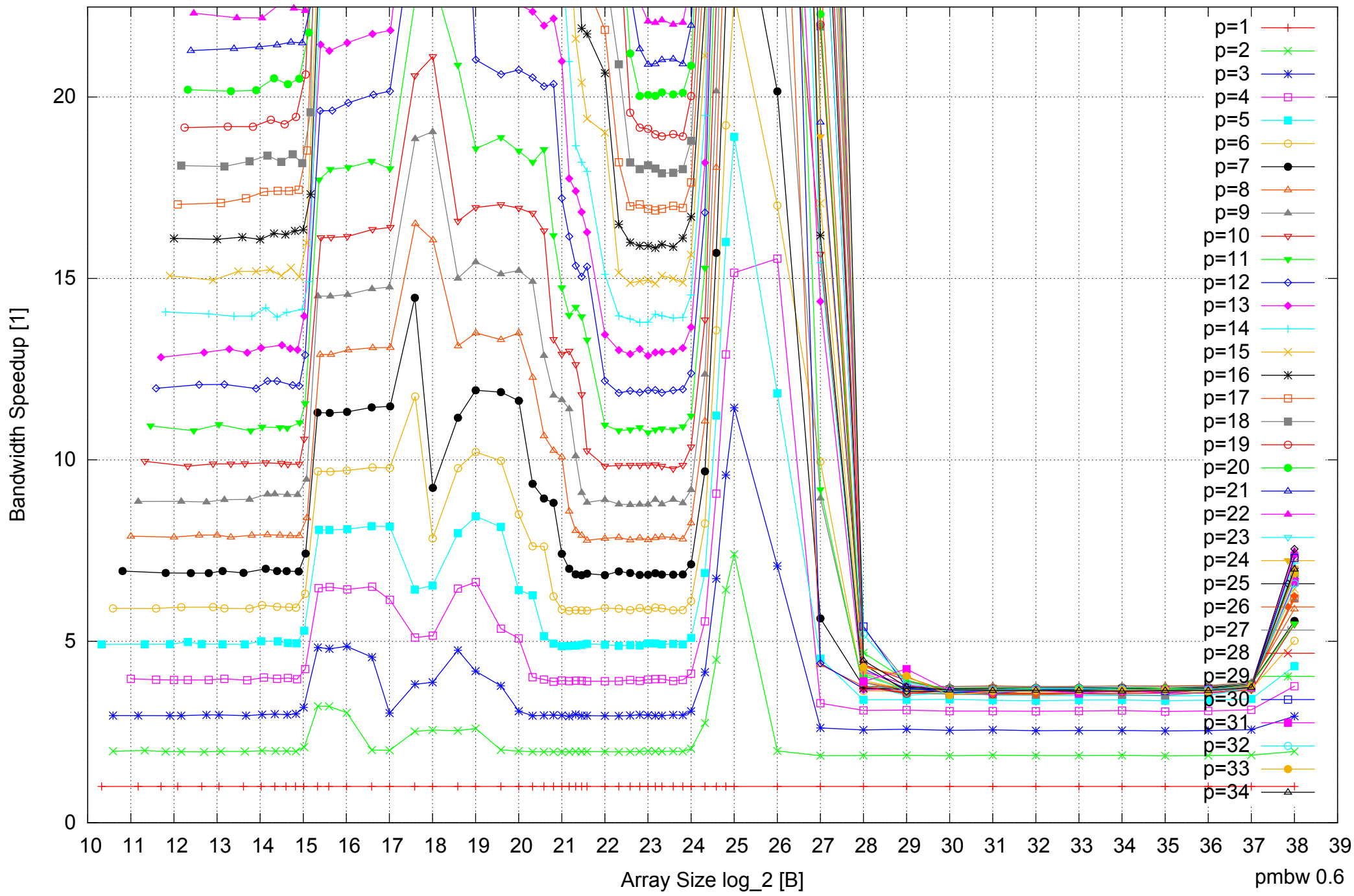
Intel Xeon E7-8837 512GB - Memory Latency - ScanWrite128PtrUnrollLoop



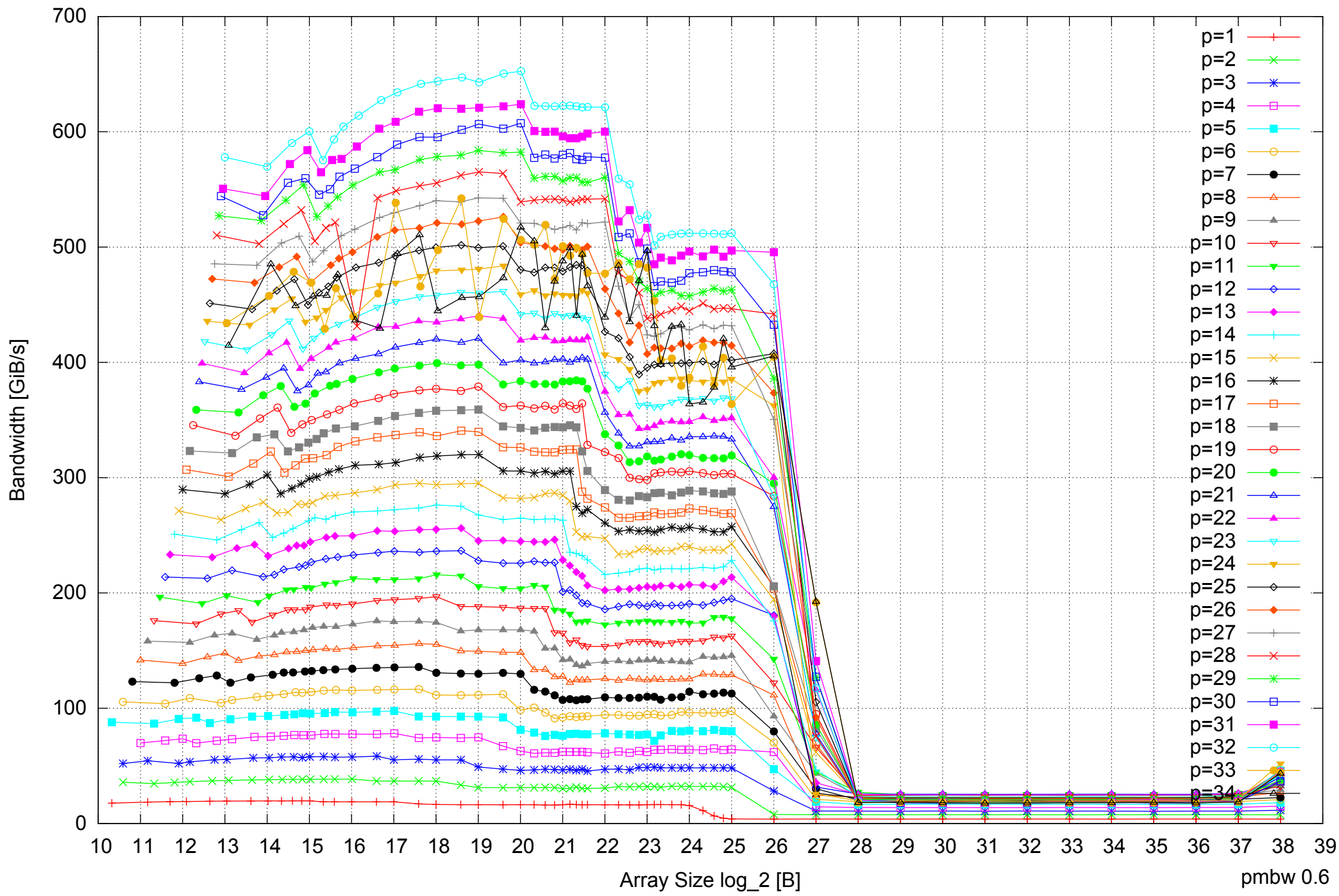
Intel Xeon E7-8837 512GB - Speedup of Memory Bandwidth - ScanWrite128PtrUnrollLoop



Intel Xeon E7-8837 512GB - Speedup of Memory Bandwidth (enlarged) - ScanWrite128PtrUnrollLoop

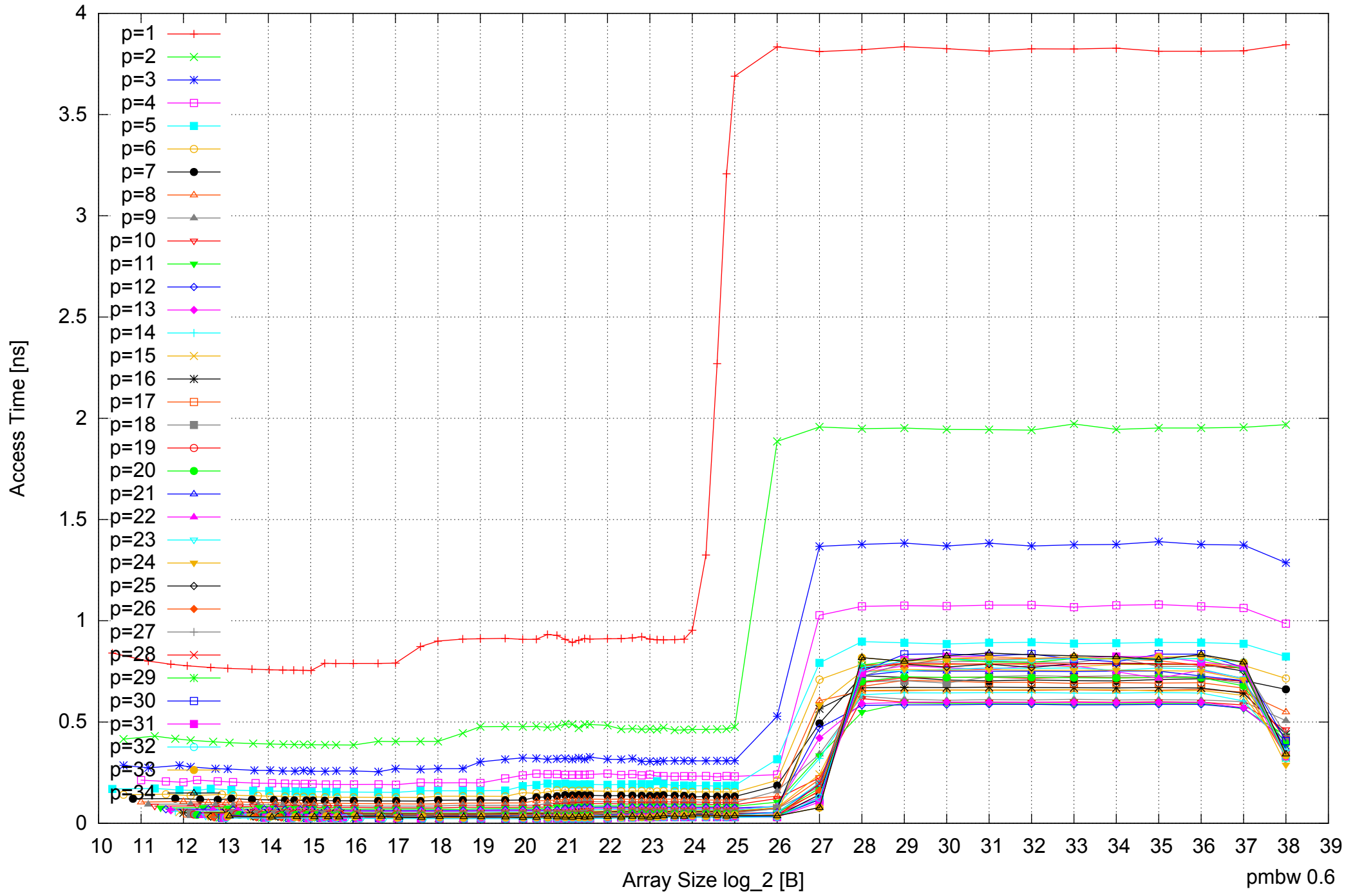


Intel Xeon E7-8837 512GB - Memory Bandwidth - ScanRead128PtrSimpleLoop



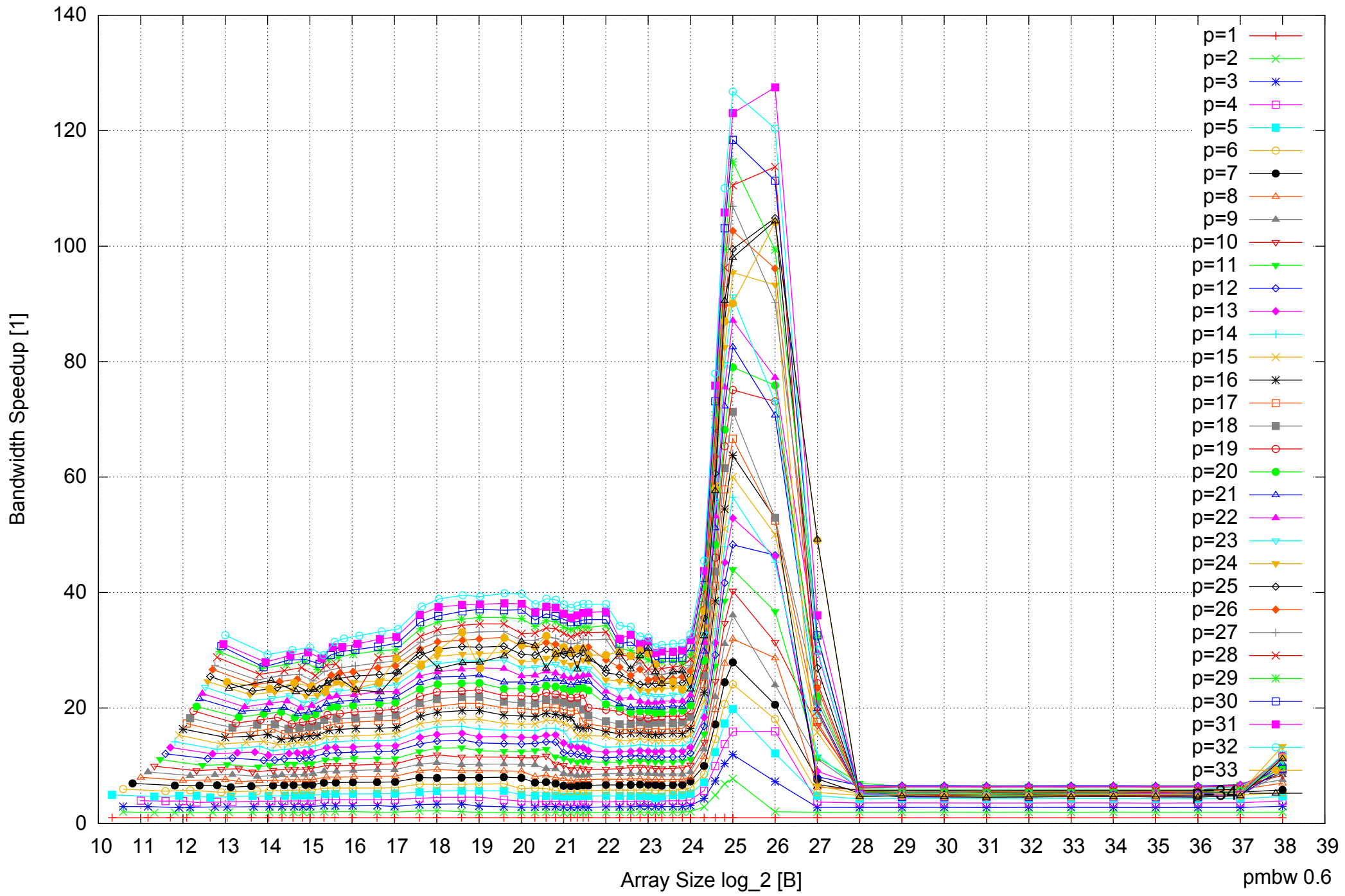


Intel Xeon E7-8837 512GB - Memory Latency - ScanRead128PtrSimpleLoop

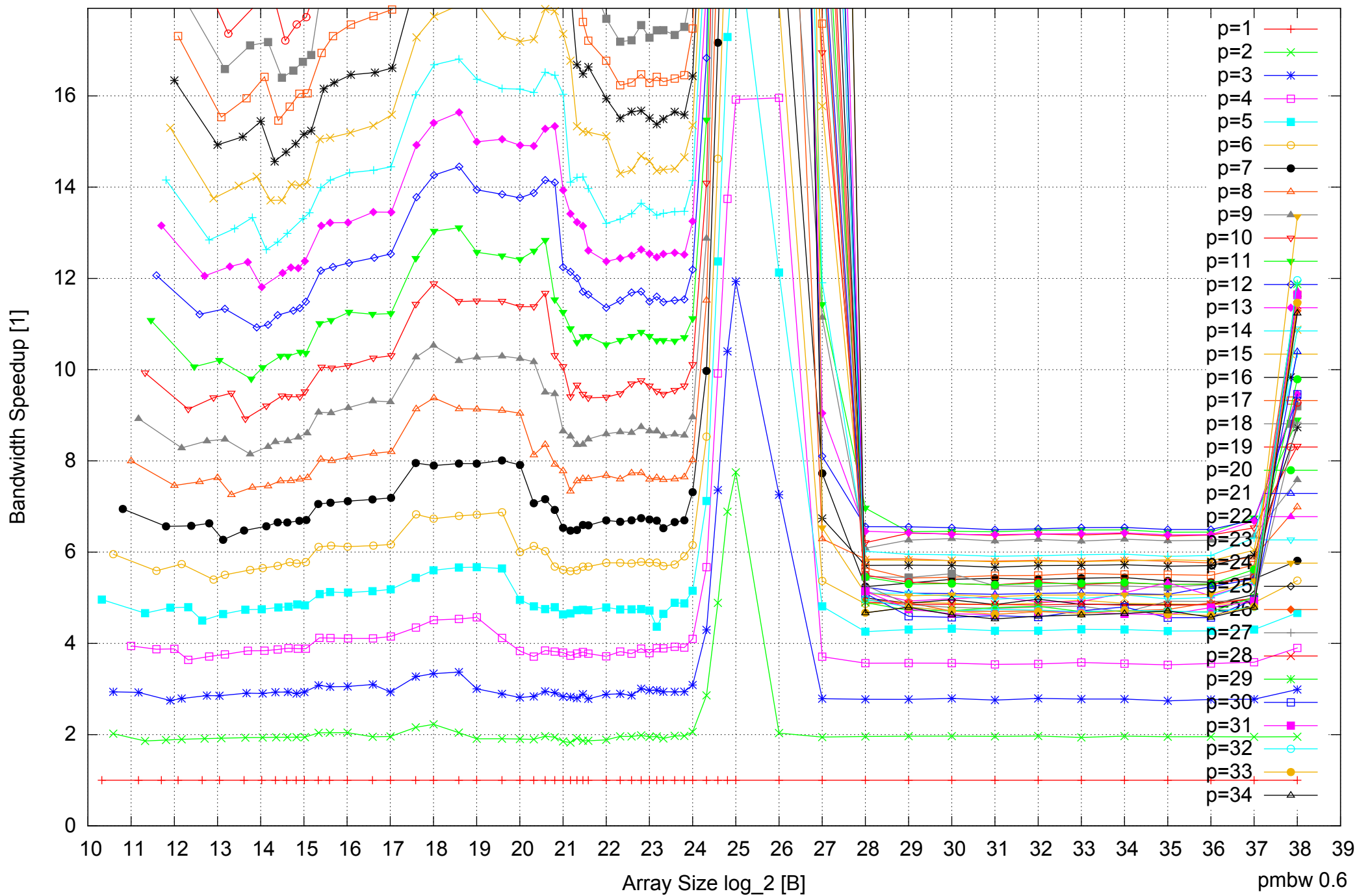




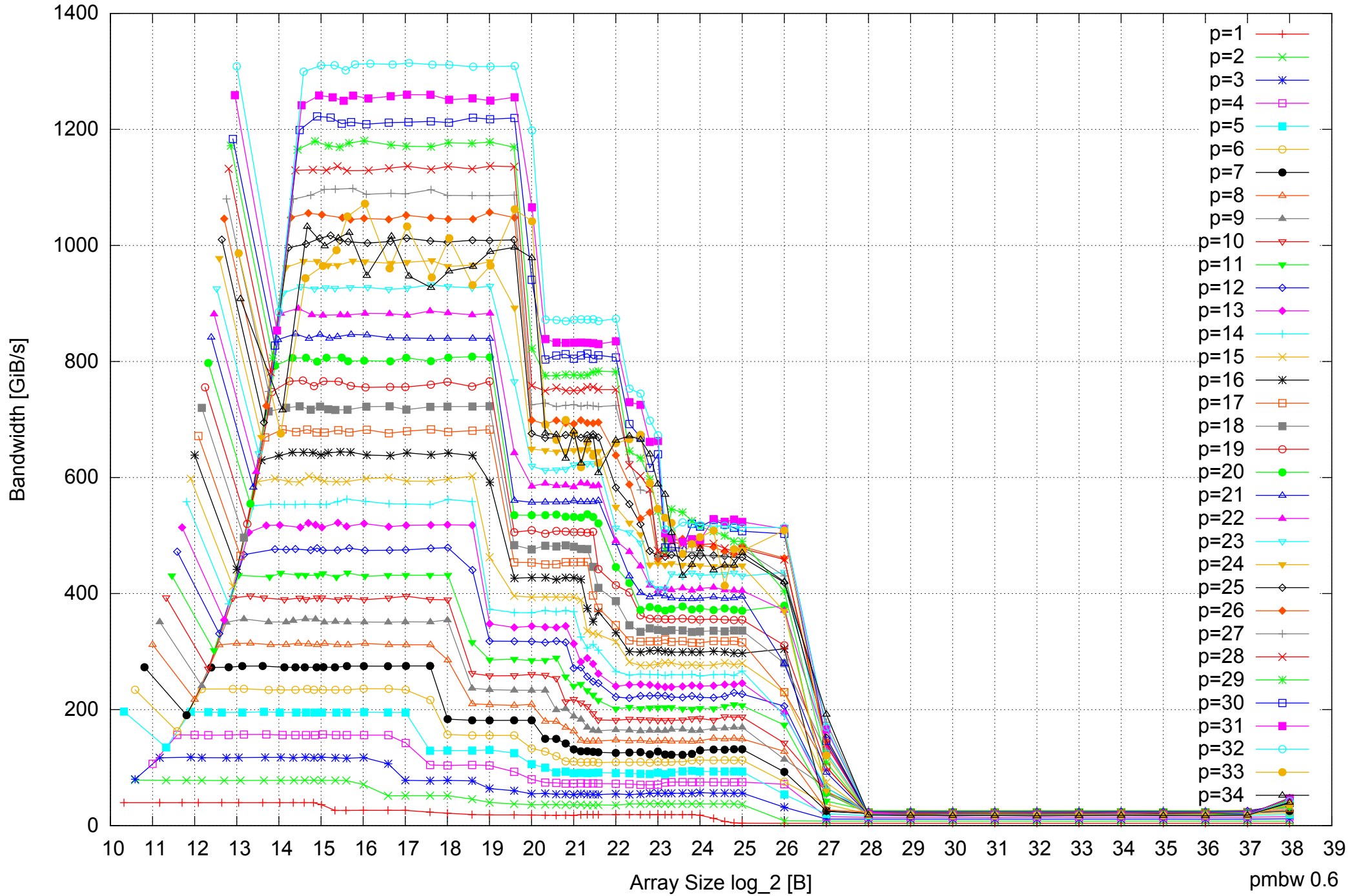
Intel Xeon E7-8837 512GB - Speedup of Memory Bandwidth - ScanRead128PtrSimpleLoop



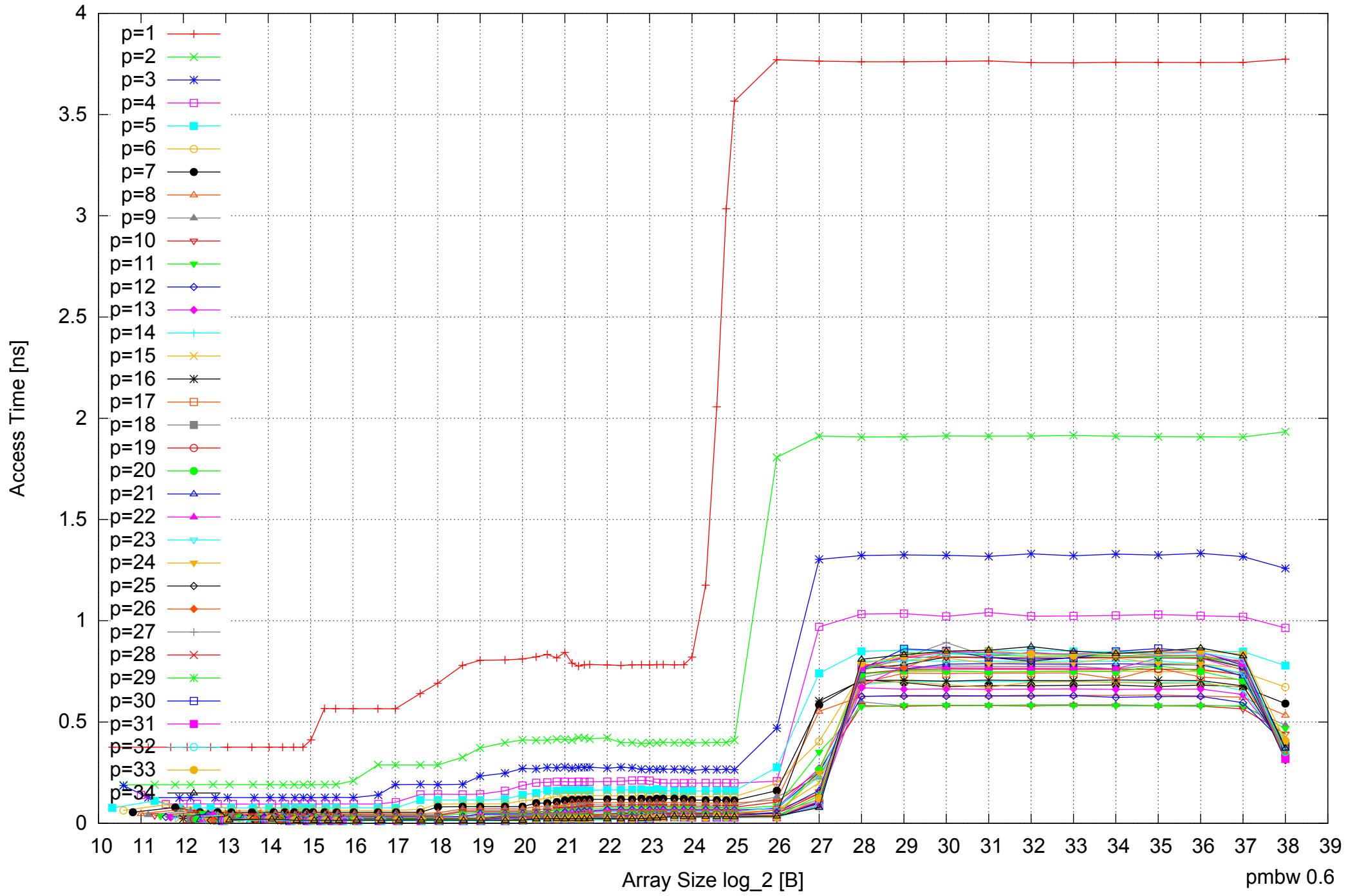
Intel Xeon E7-8837 512GB - Speedup of Memory Bandwidth (enlarged) - ScanRead128PtrSimpleLoop



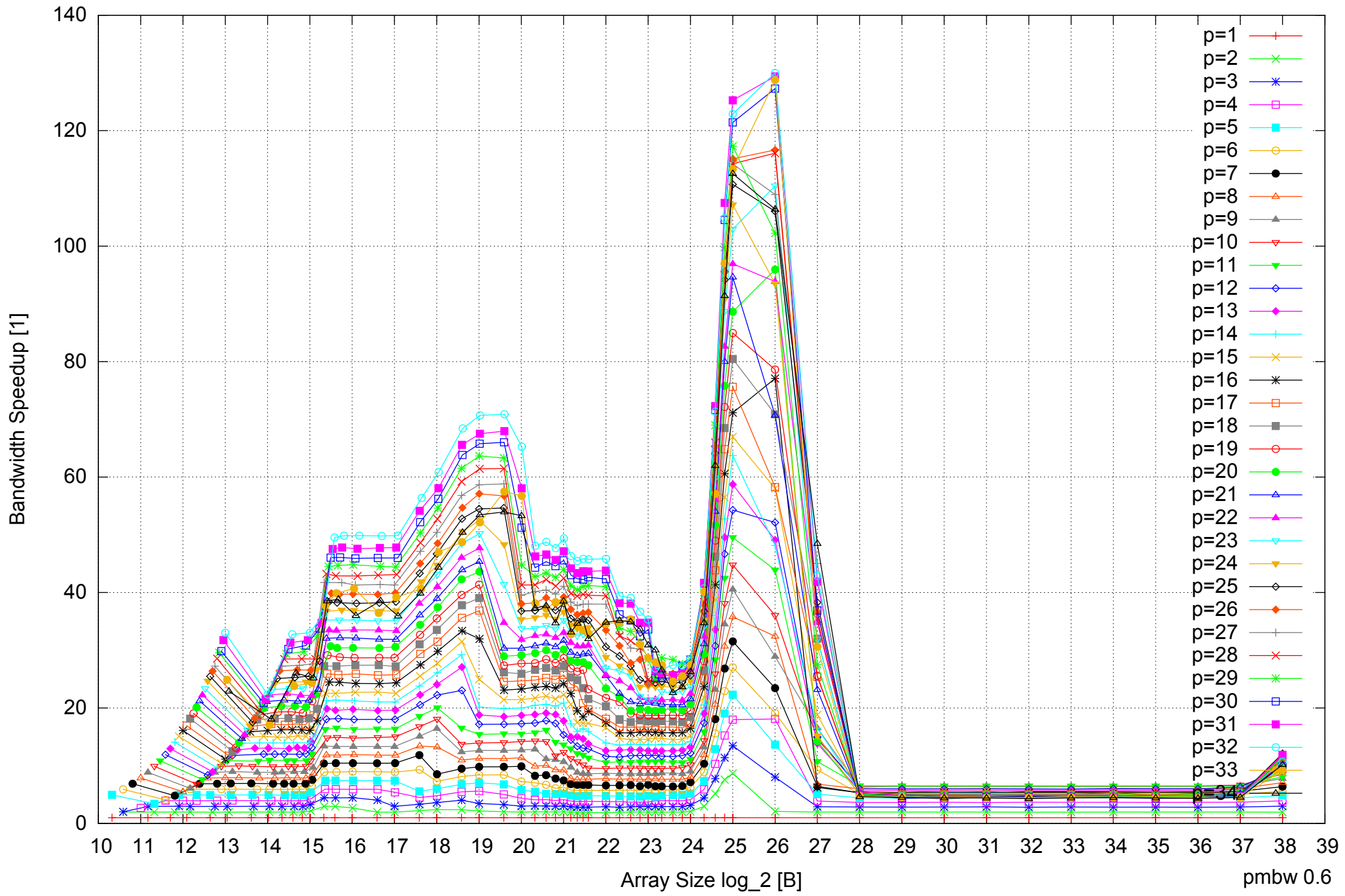
Intel Xeon E7-8837 512GB - Memory Bandwidth - ScanRead128PtrUnrollLoop



Intel Xeon E7-8837 512GB - Memory Latency - ScanRead128PtrUnrollLoop

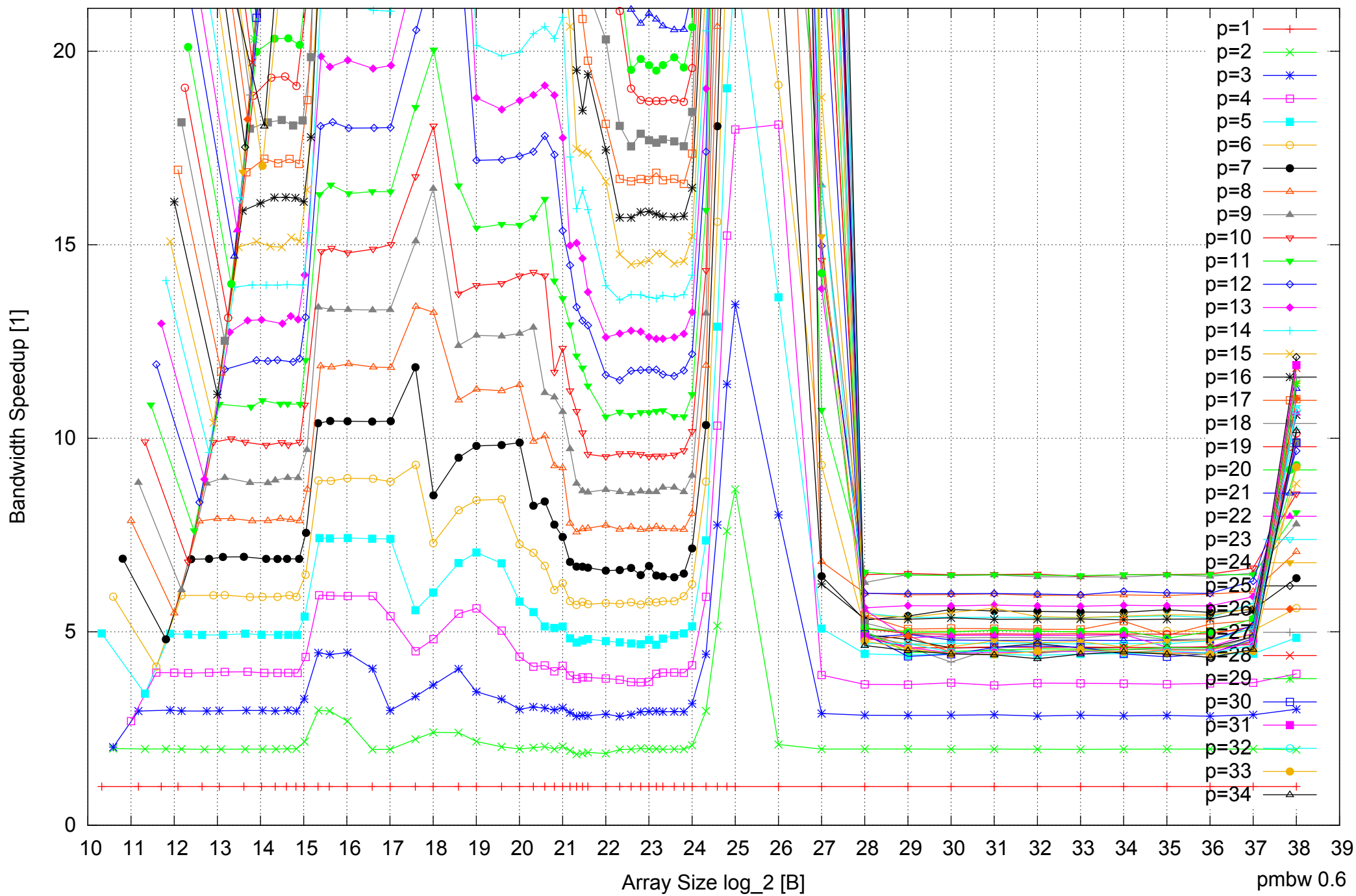


Intel Xeon E7-8837 512GB - Speedup of Memory Bandwidth - ScanRead128PtrUnrollLoop



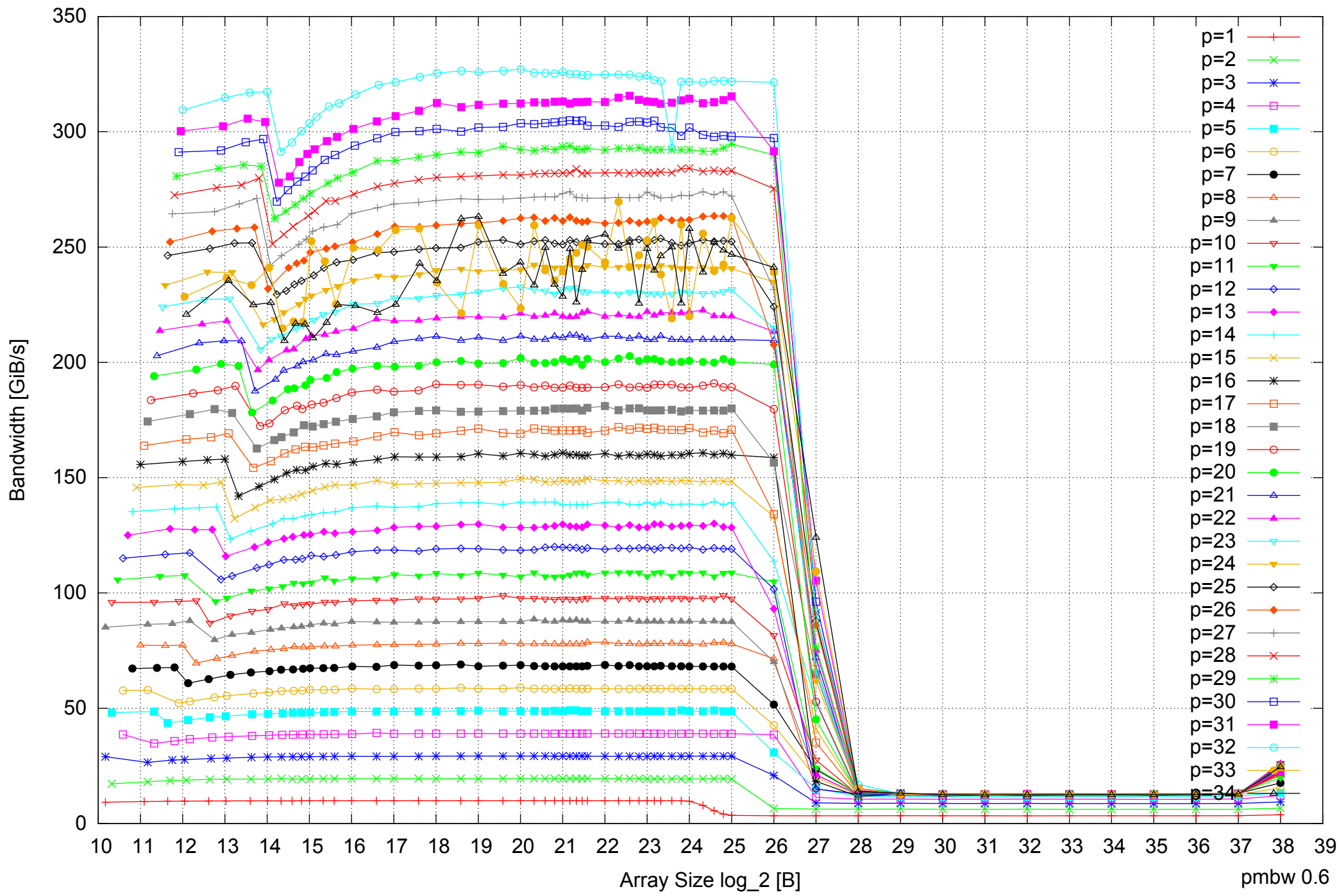


Intel Xeon E7-8837 512GB - Speedup of Memory Bandwidth (enlarged) - ScanRead128PtrUnrollLoop

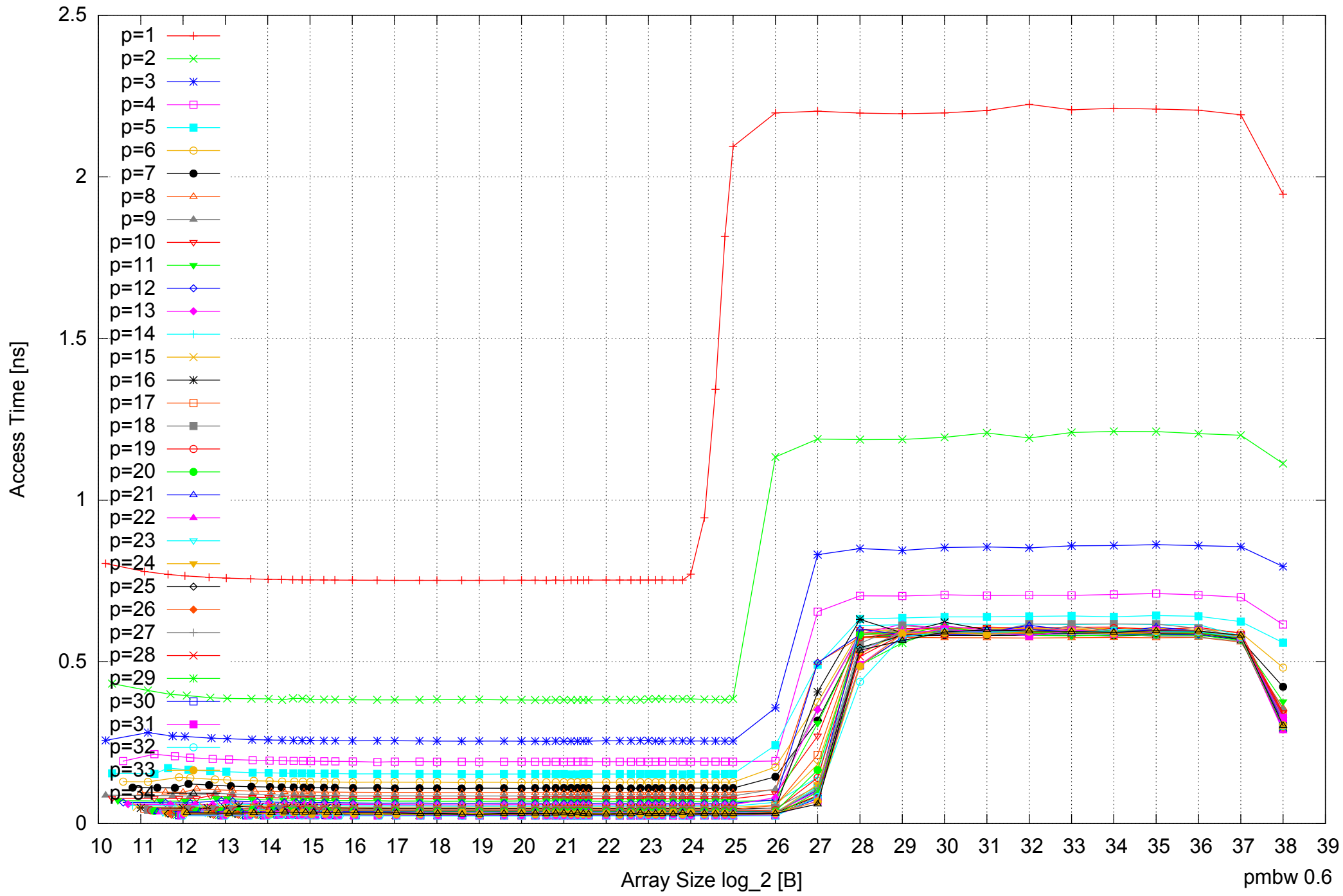




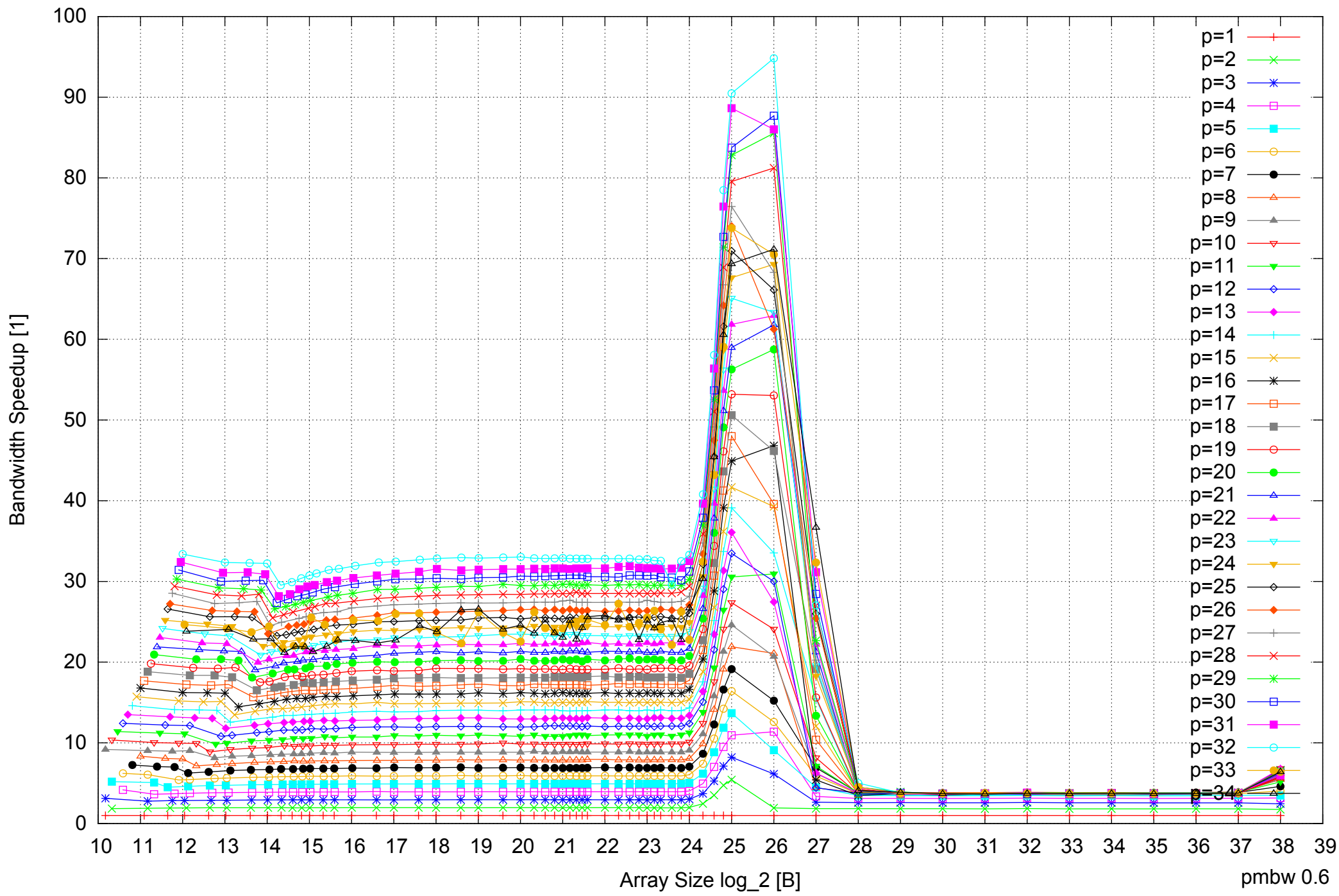
Intel Xeon E7-8837 512GB - Memory Bandwidth - ScanWrite64PtrSimpleLoop



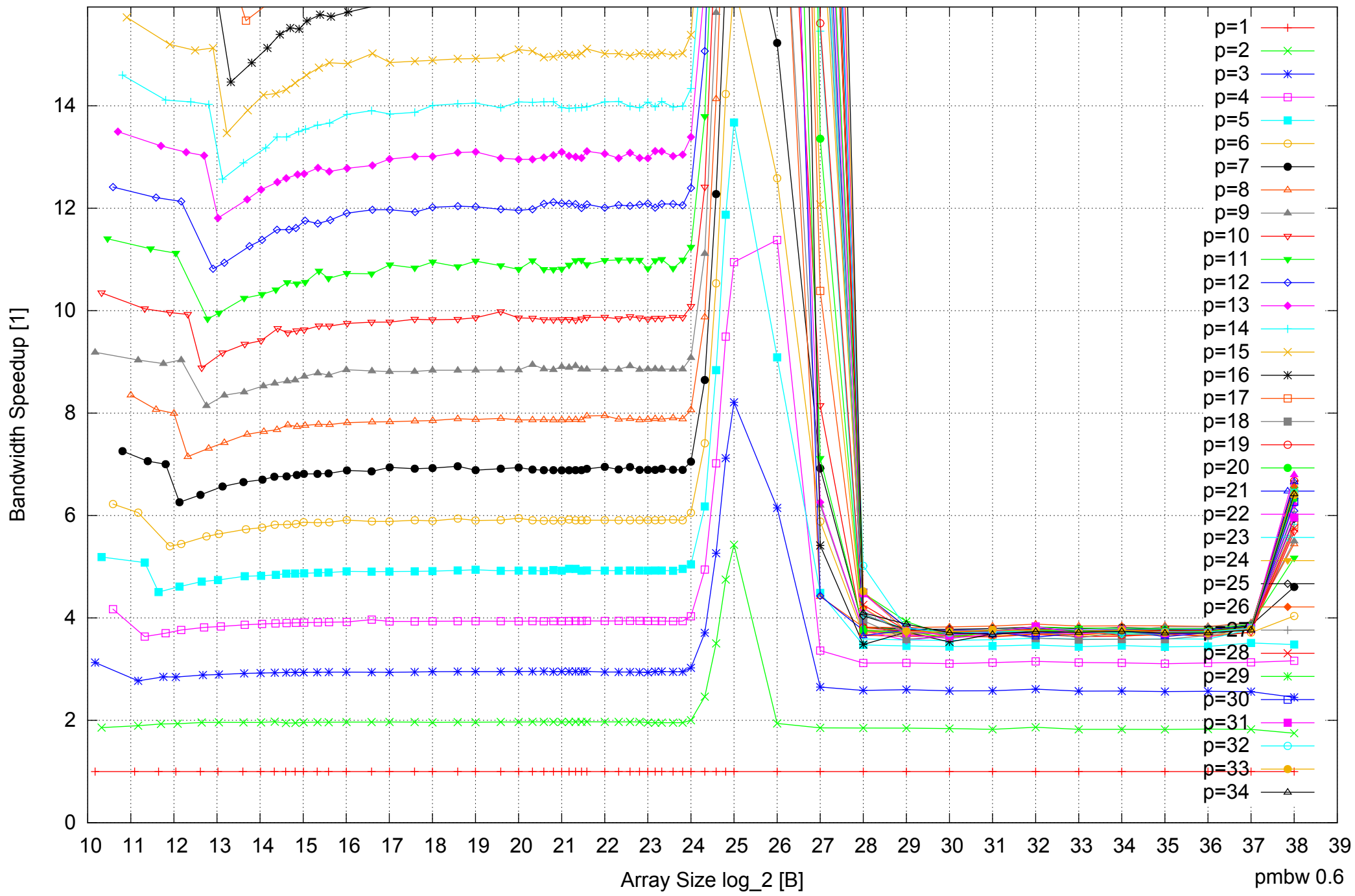
Intel Xeon E7-8837 512GB - Memory Latency - ScanWrite64PtrSimpleLoop



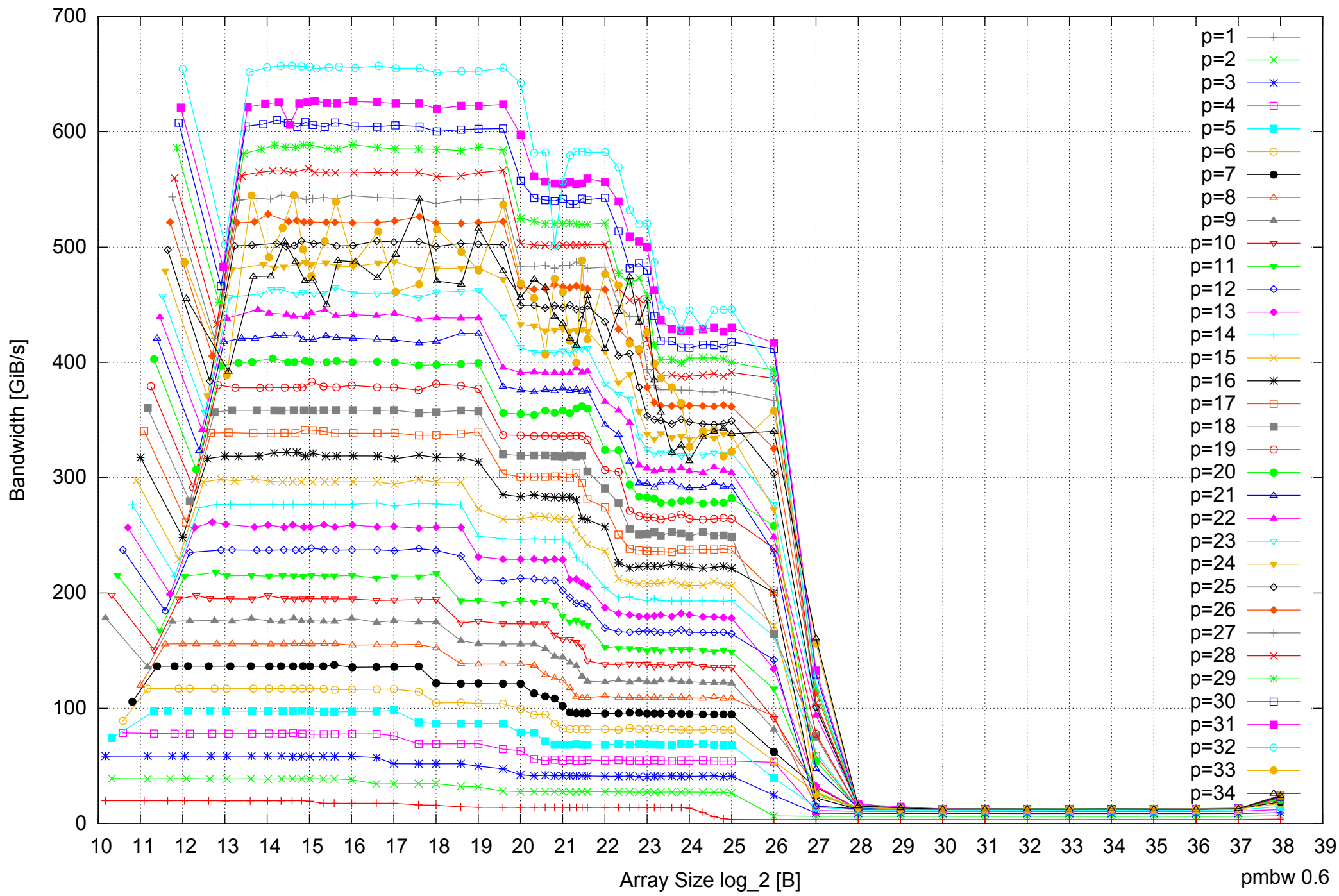
# Intel Xeon E7-8837 512GB - Speedup of Memory Bandwidth - ScanWrite64PtrSimpleLoop



Intel Xeon E7-8837 512GB - Speedup of Memory Bandwidth (enlarged) - ScanWrite64PtrSimpleLoop

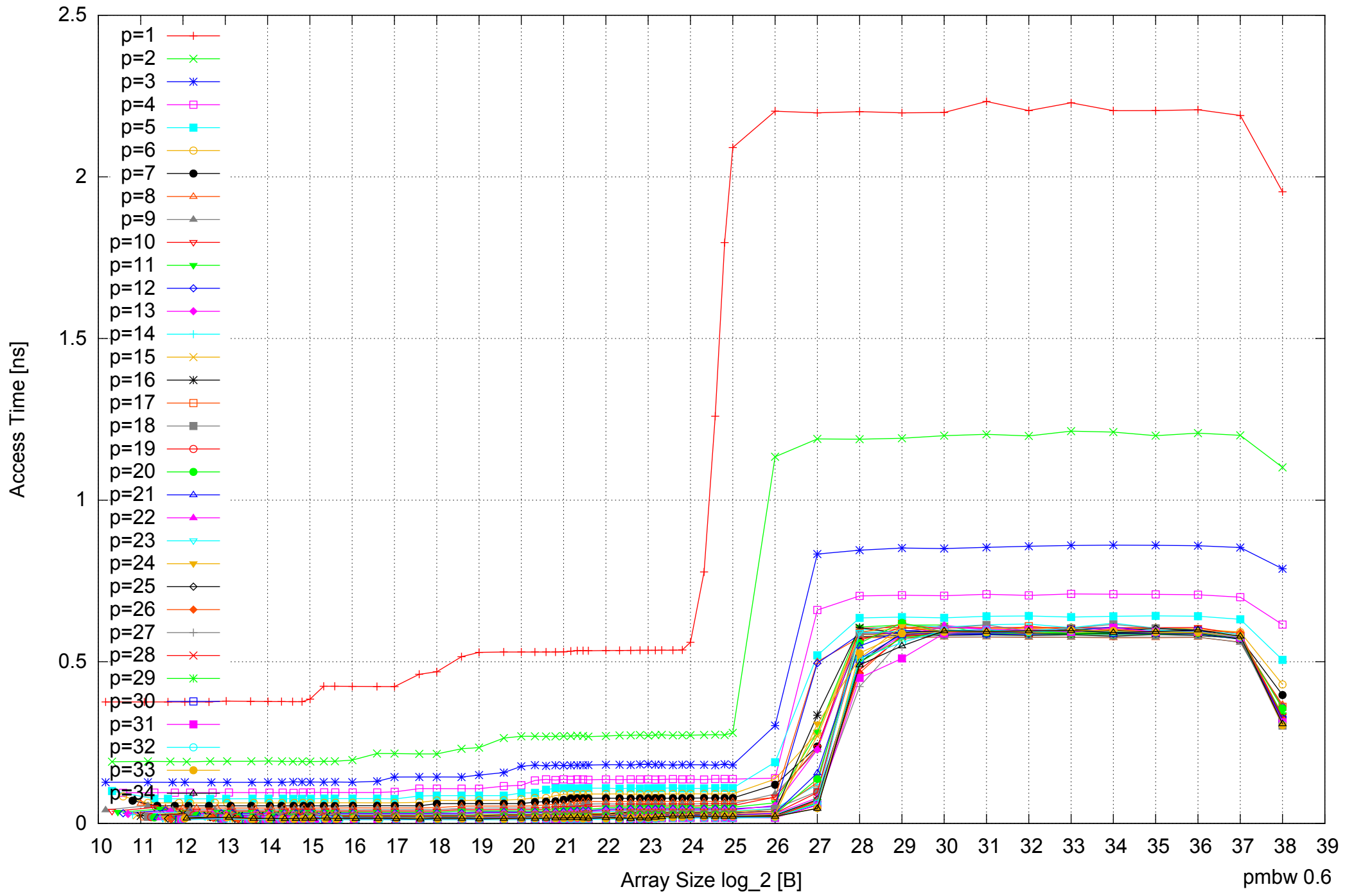


Intel Xeon E7-8837 512GB - Memory Bandwidth - ScanWrite64PtrUnrollLoop



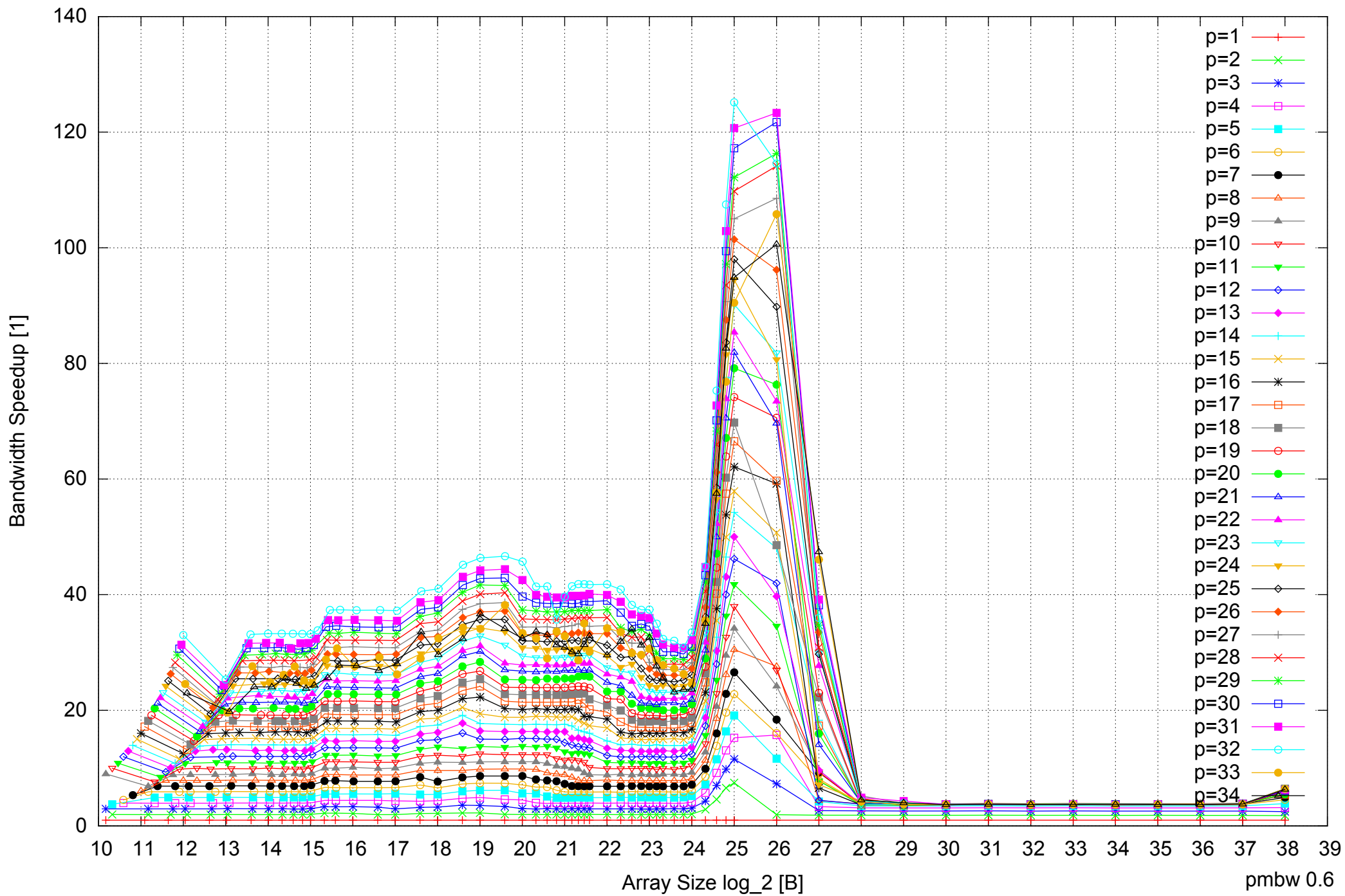


## Intel Xeon E7-8837 512GB - Memory Latency - ScanWrite64PtrUnrollLoop

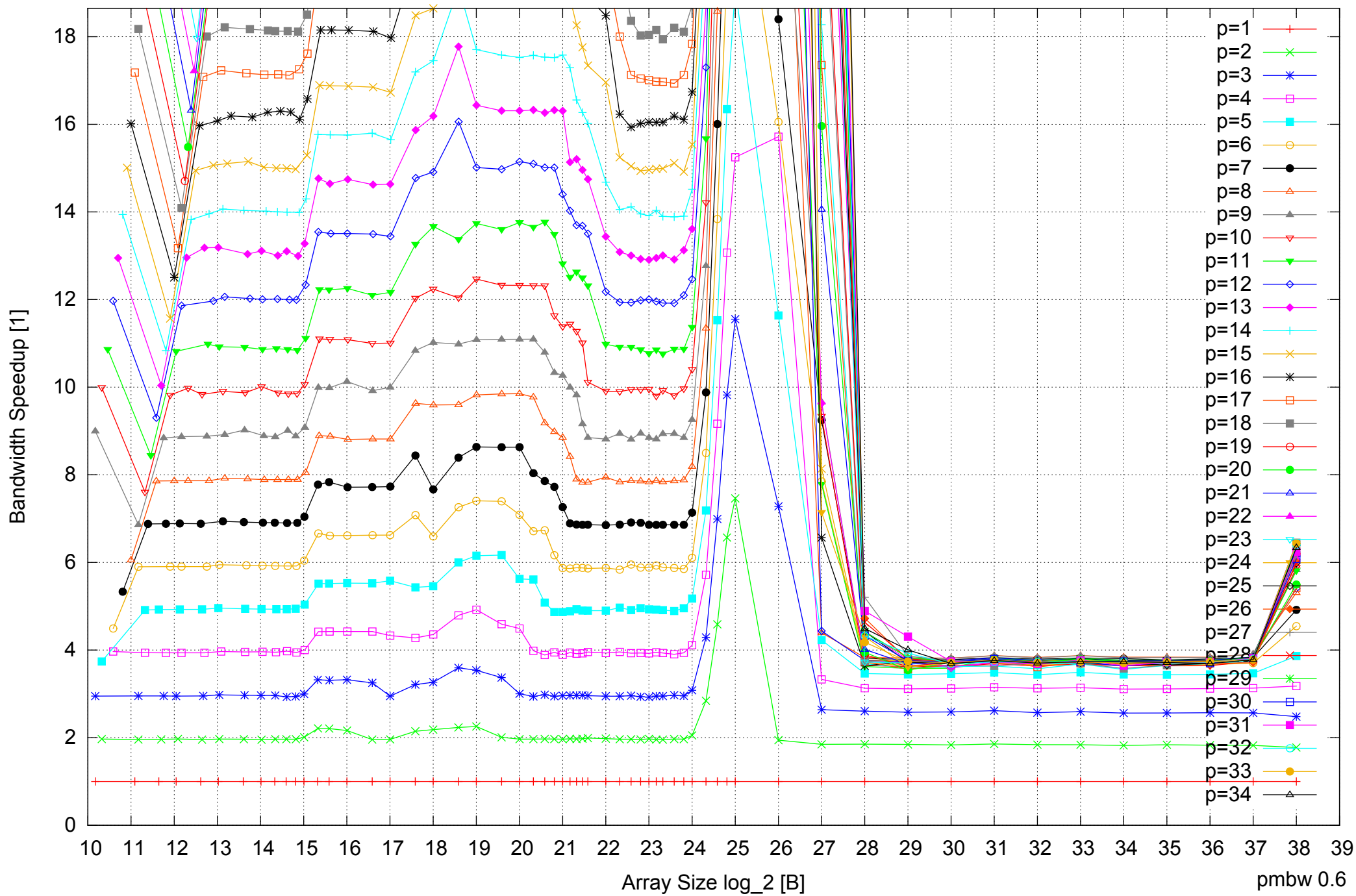




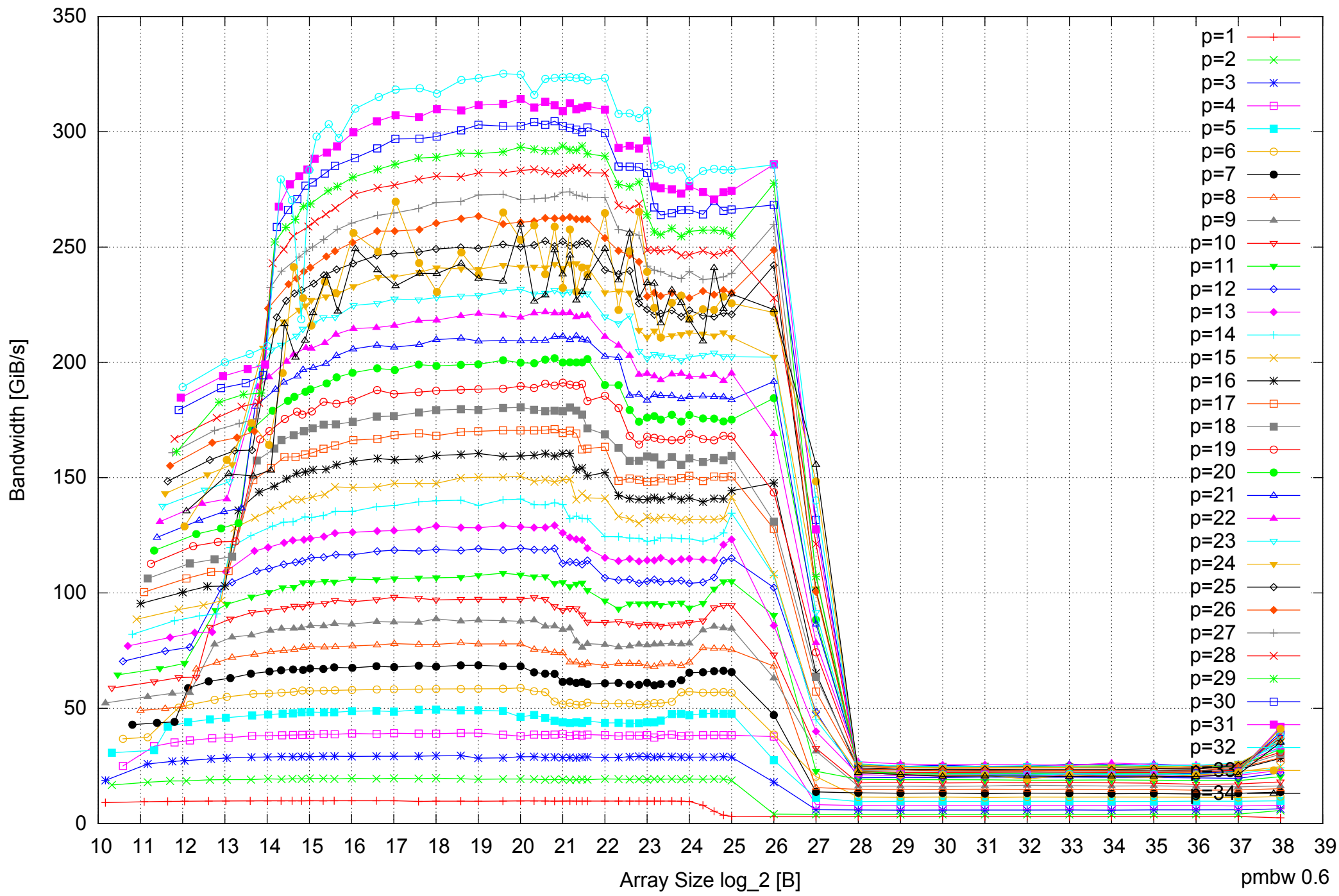
Intel Xeon E7-8837 512GB - Speedup of Memory Bandwidth - ScanWrite64PtrUnrollLoop



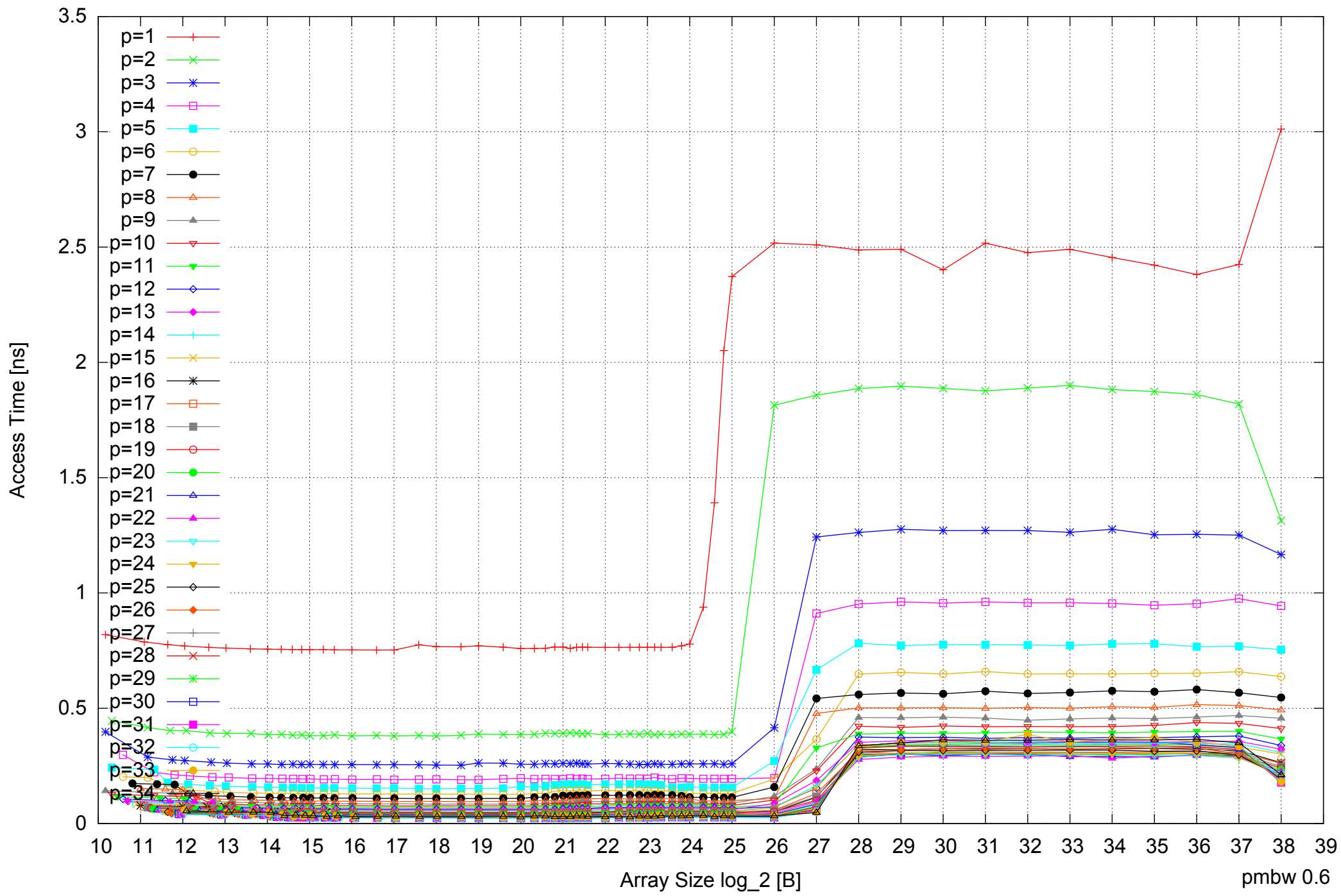
Intel Xeon E7-8837 512GB - Speedup of Memory Bandwidth (enlarged) - ScanWrite64PtrUnrollLoop



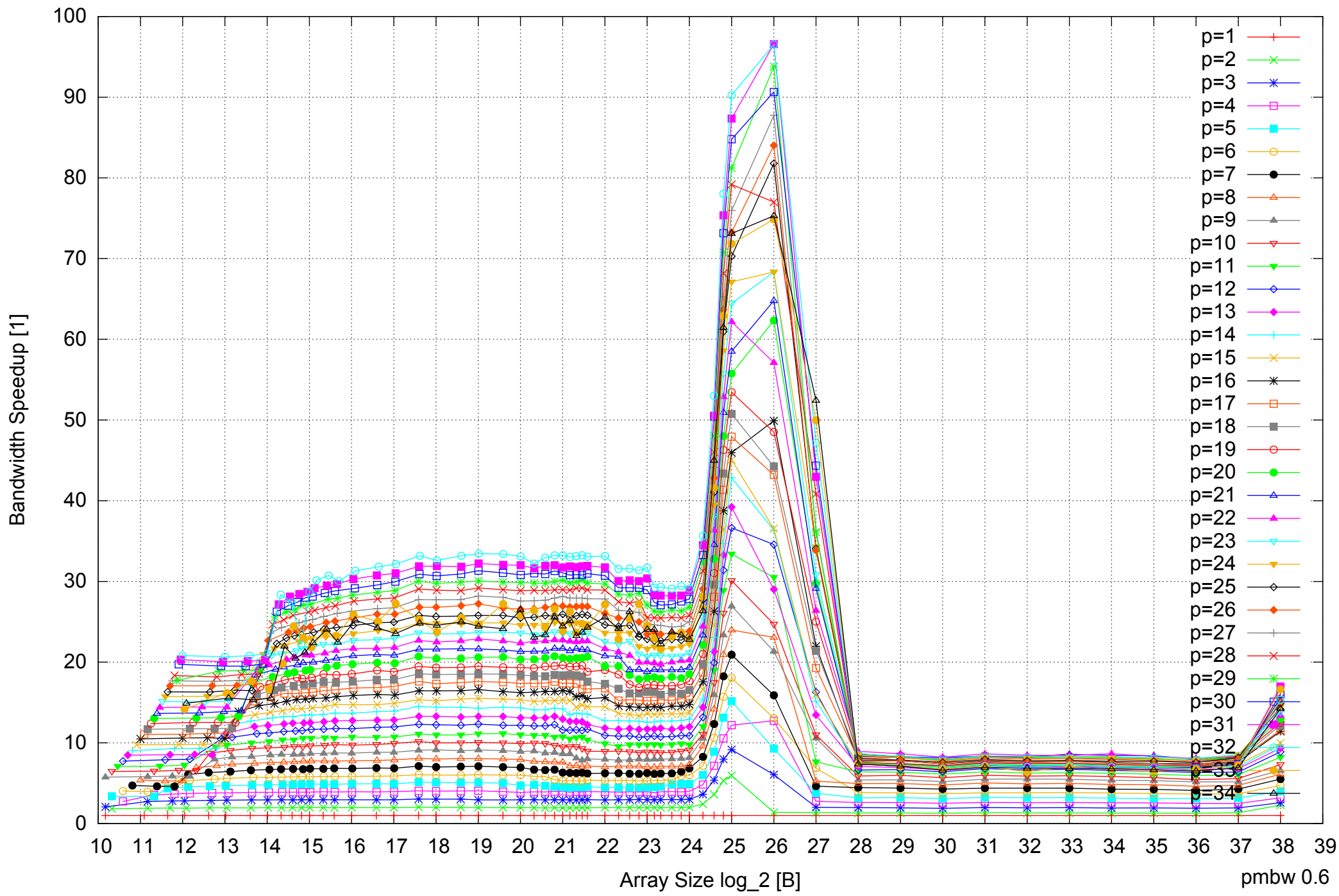
Intel Xeon E7-8837 512GB - Memory Bandwidth - ScanRead64PtrSimpleLoop



# Intel Xeon E7-8837 512GB - Memory Latency - ScanRead64PtrSimpleLoop



Intel Xeon E7-8837 512GB - Speedup of Memory Bandwidth - ScanRead64PtrSimpleLoop

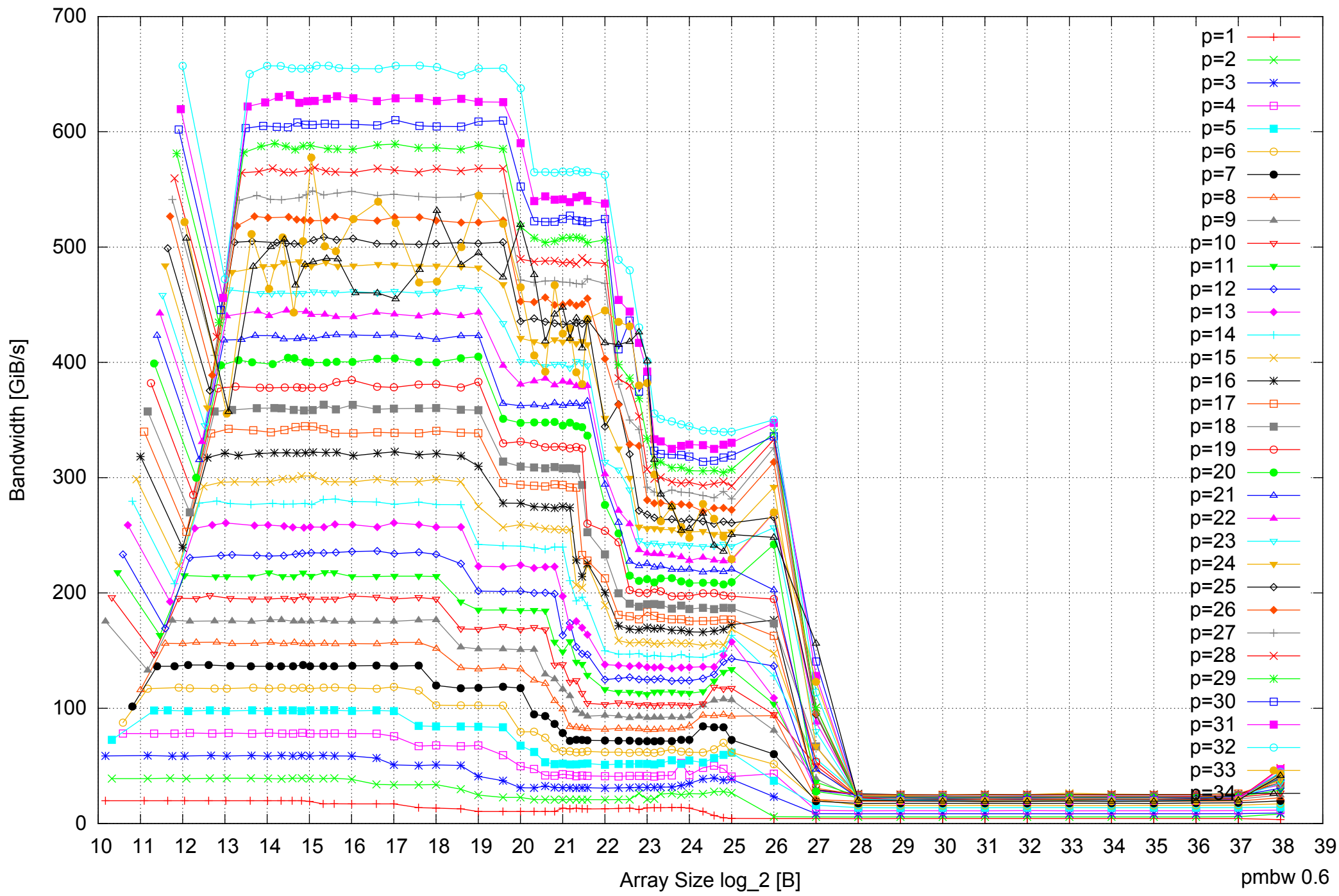




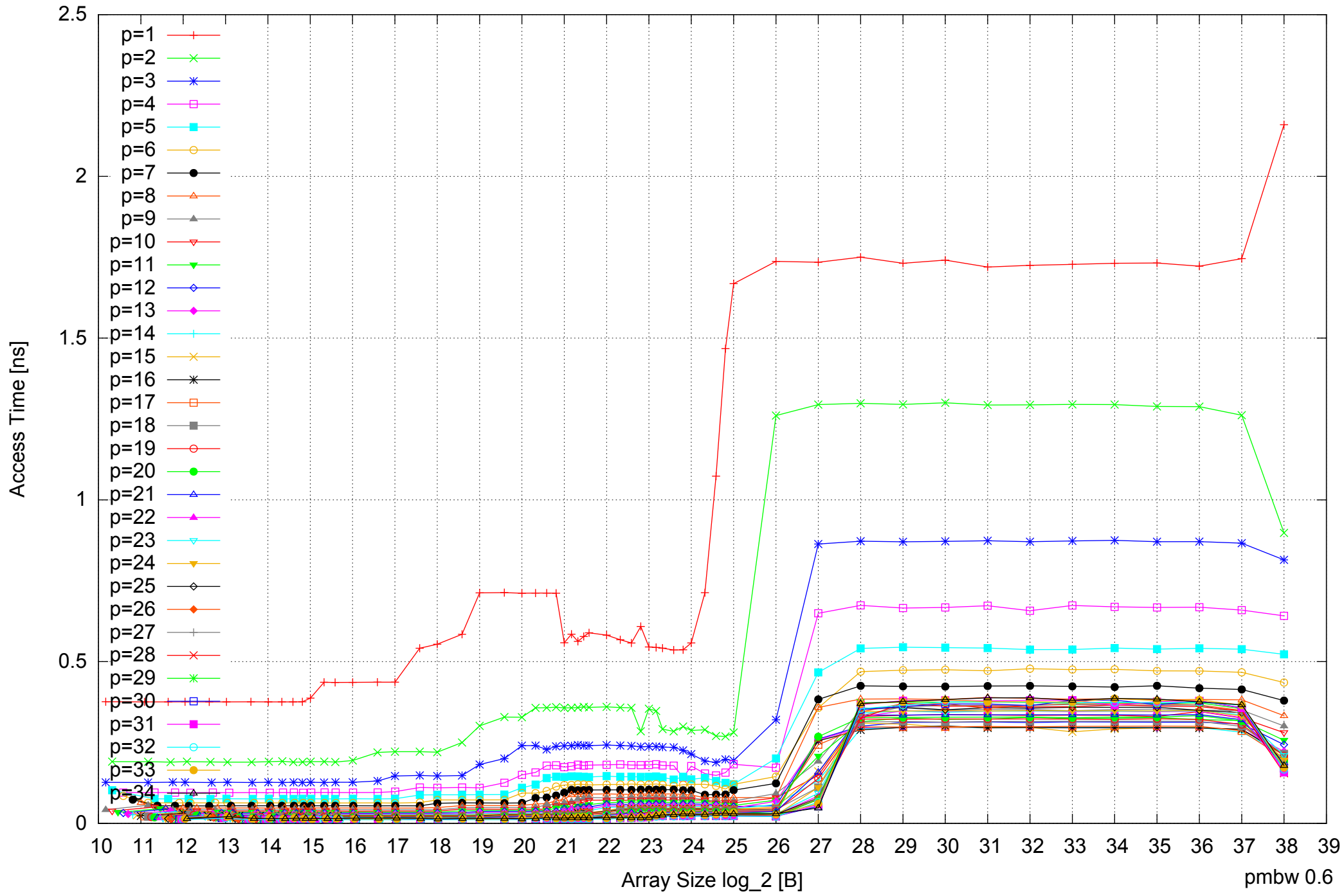




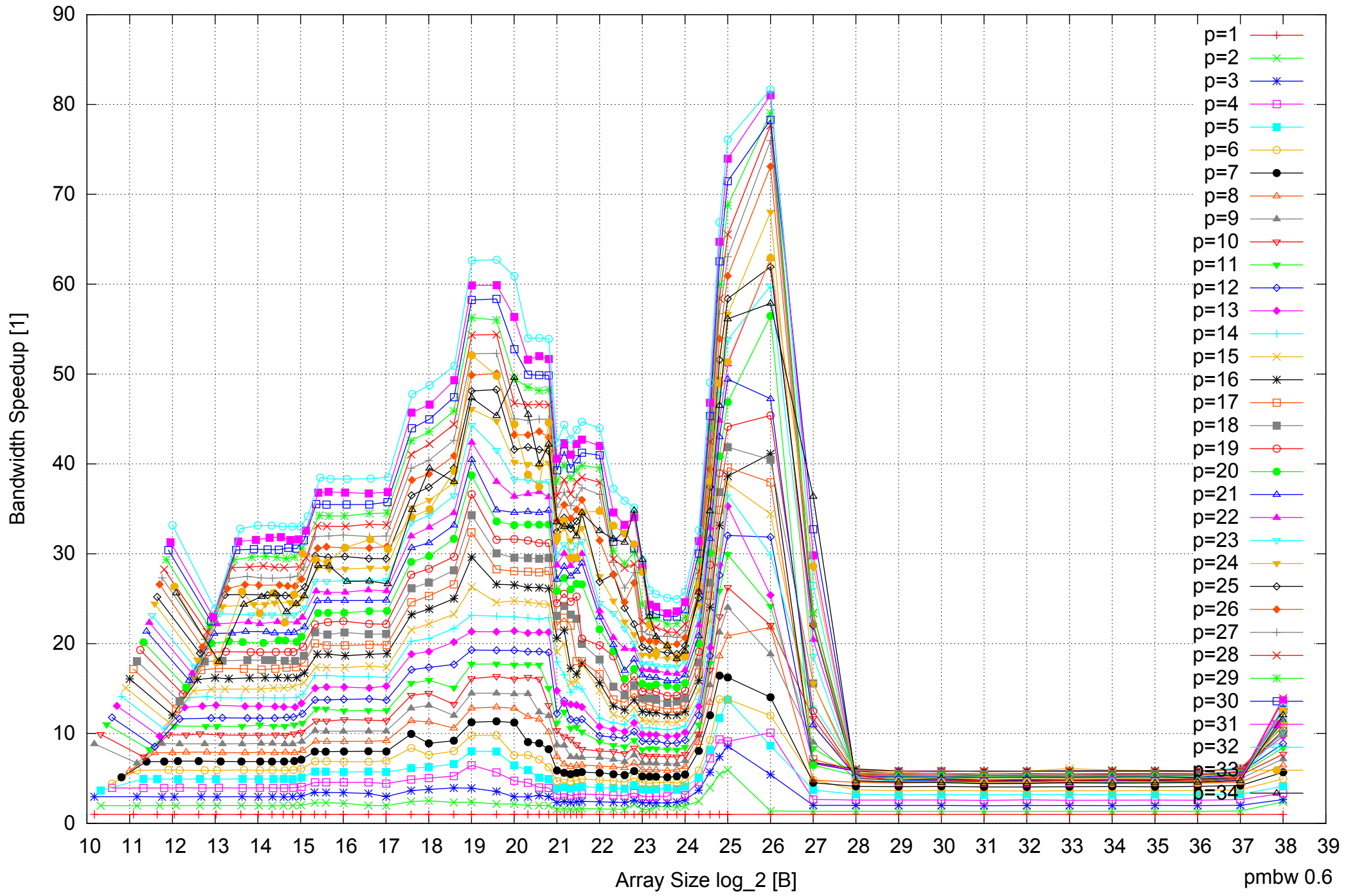
Intel Xeon E7-8837 512GB - Memory Bandwidth - ScanRead64PtrUnrollLoop



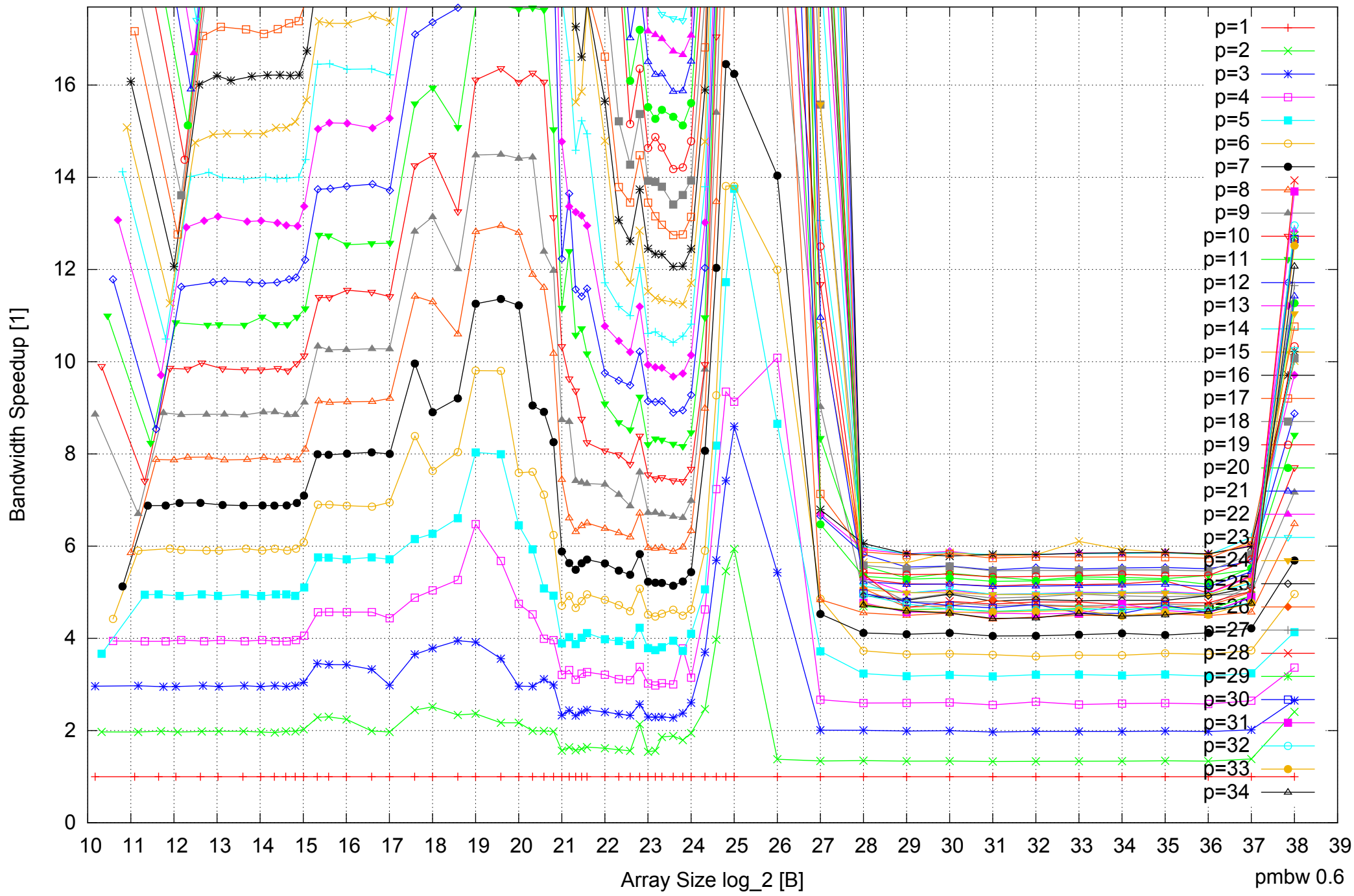
Intel Xeon E7-8837 512GB - Memory Latency - ScanRead64PtrUnrollLoop



Intel Xeon E7-8837 512GB - Speedup of Memory Bandwidth - ScanRead64PtrUnrollLoop

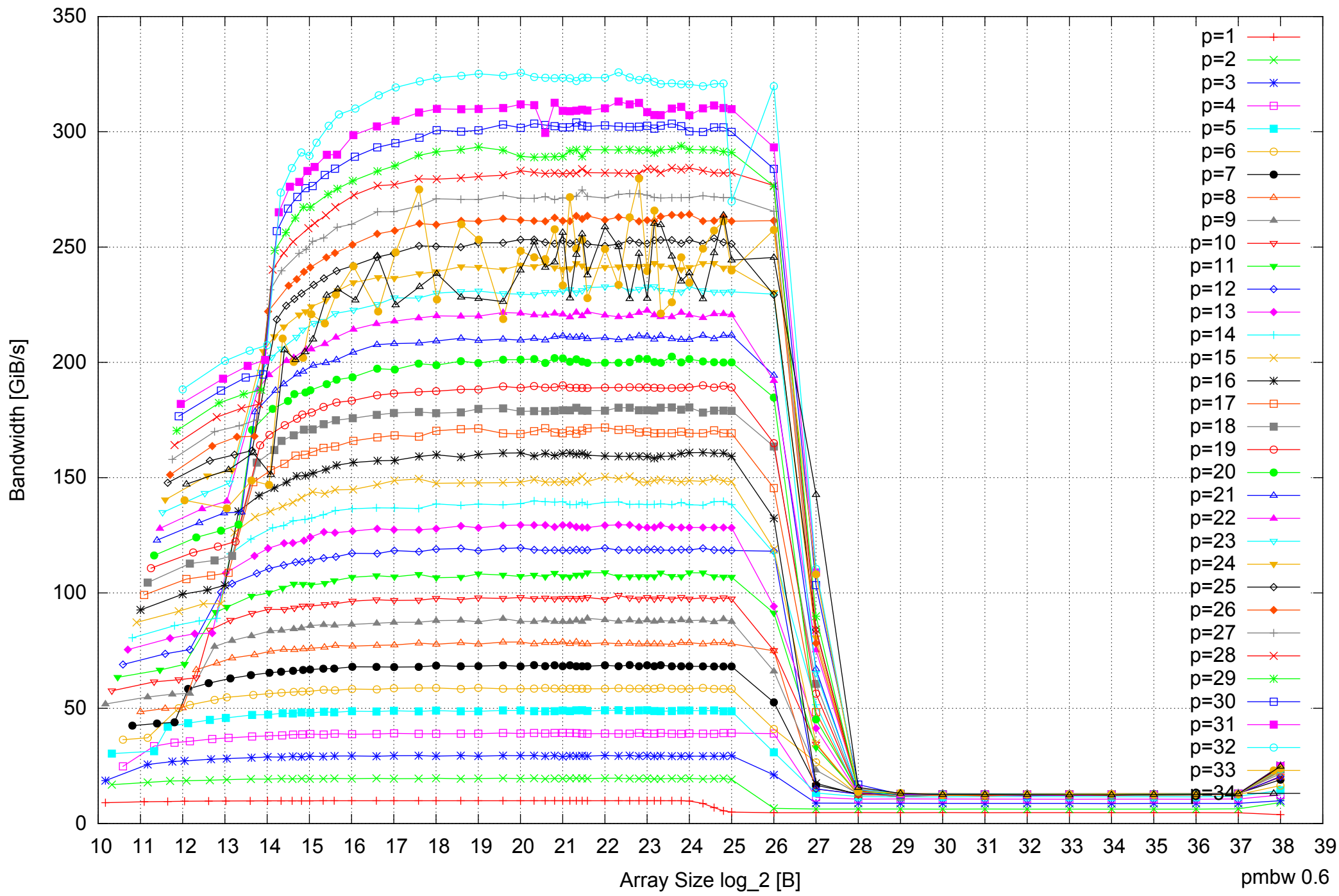


Intel Xeon E7-8837 512GB - Speedup of Memory Bandwidth (enlarged) - ScanRead64PtrUnrollLoop



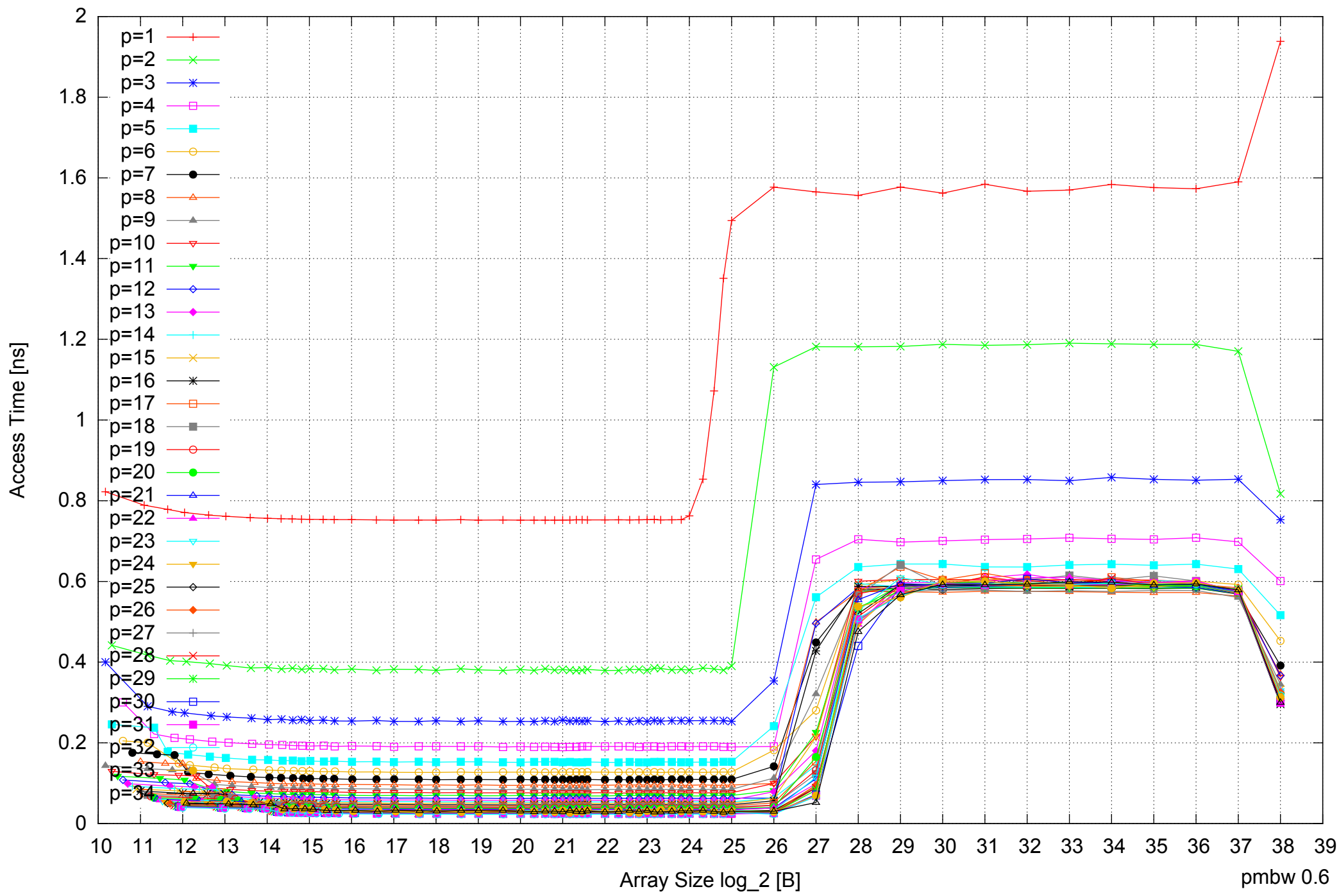


Intel Xeon E7-8837 512GB - Memory Bandwidth - ScanWrite64IndexSimpleLoop

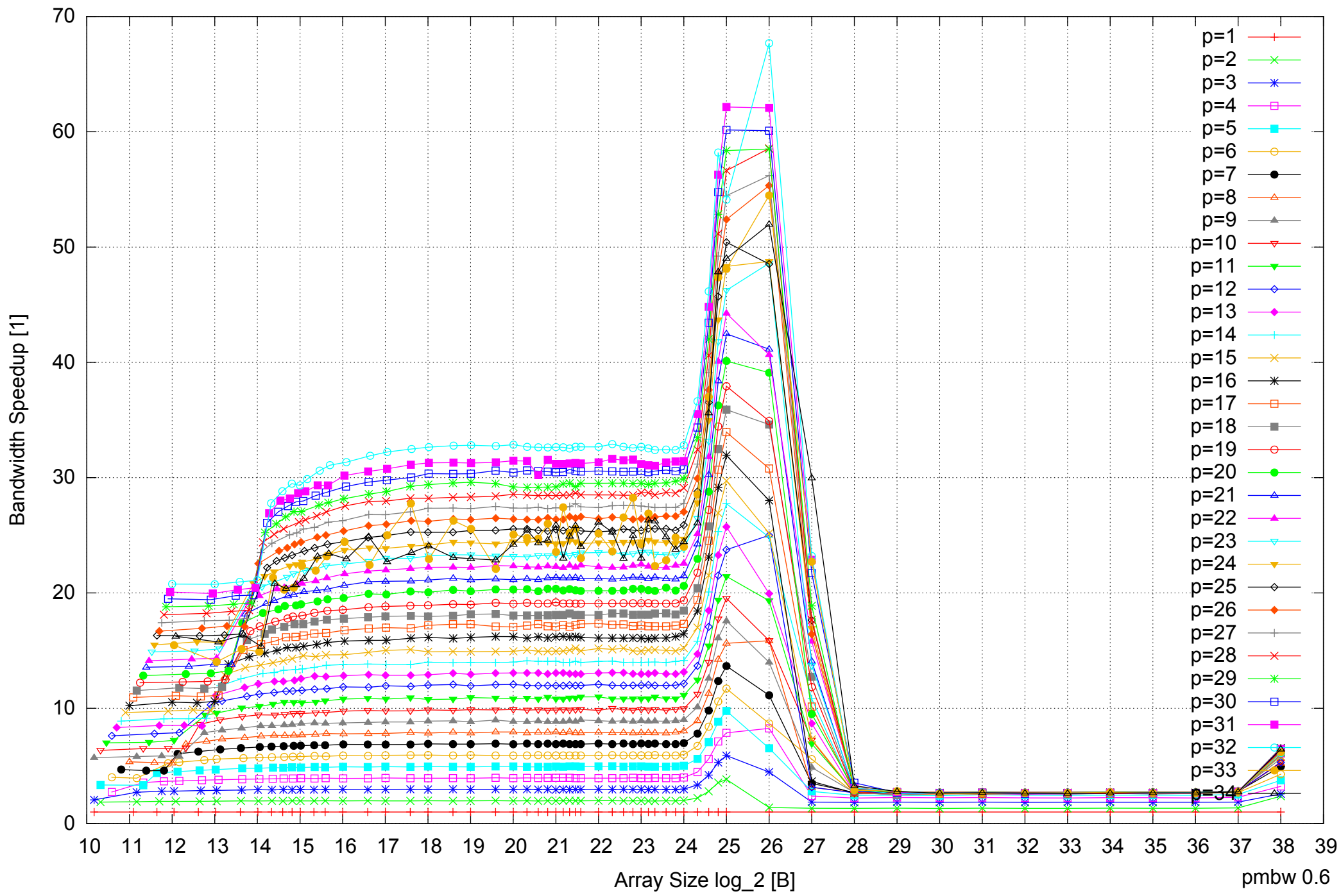




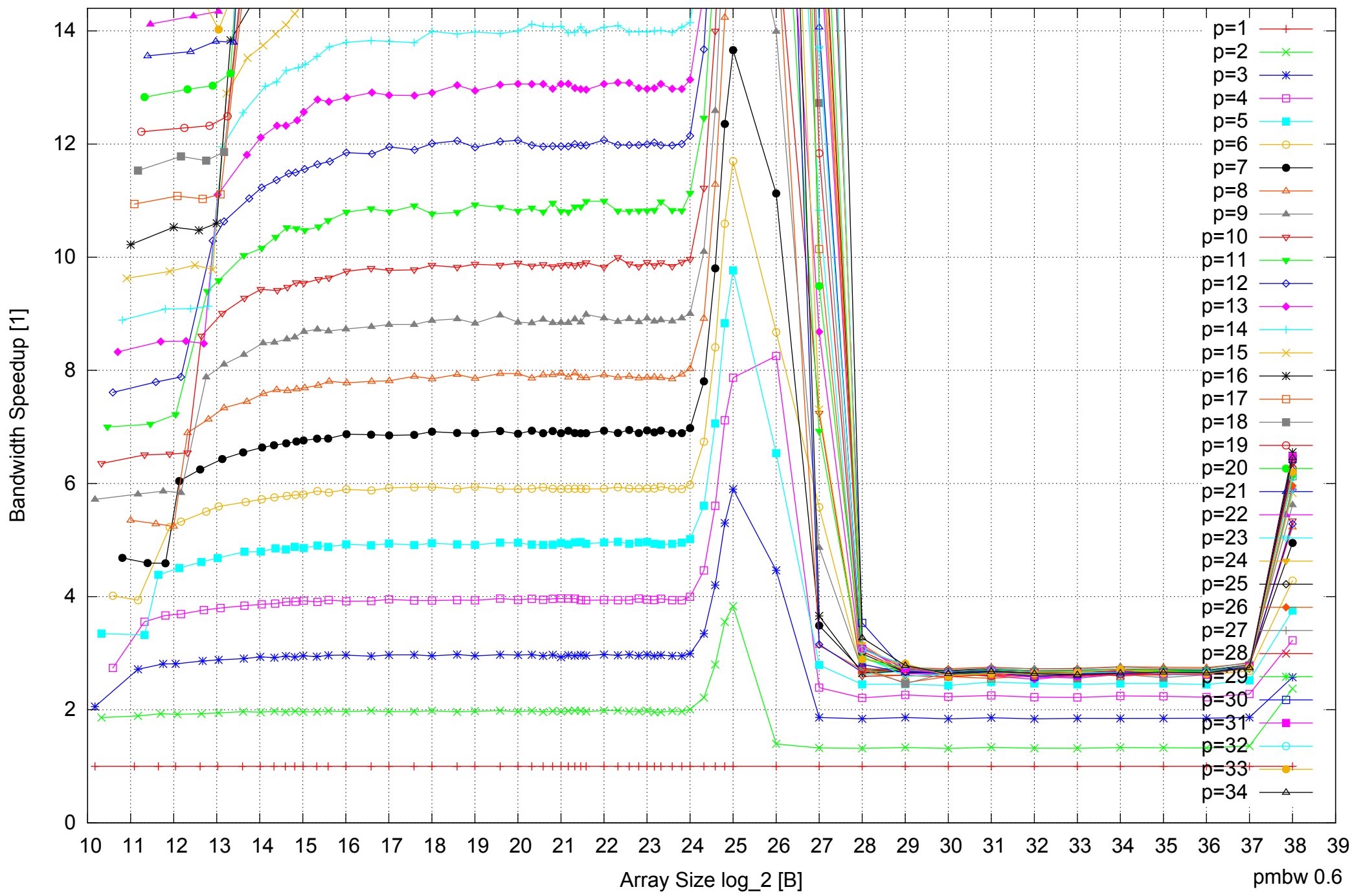
# Intel Xeon E7-8837 512GB - Memory Latency - ScanWrite64IndexSimpleLoop



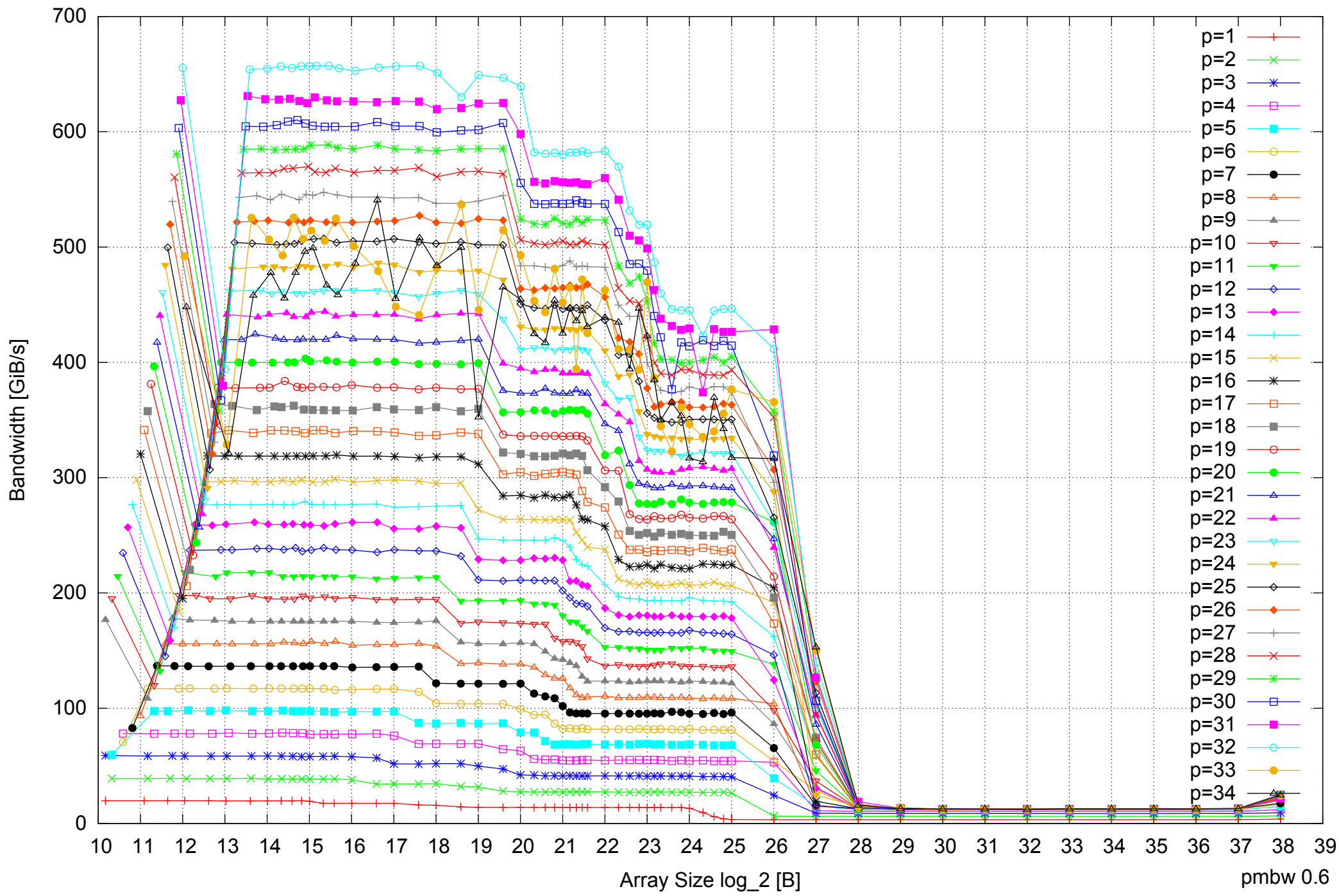
Intel Xeon E7-8837 512GB - Speedup of Memory Bandwidth - ScanWrite64IndexSimpleLoop



Intel Xeon E7-8837 512GB - Speedup of Memory Bandwidth (enlarged) - ScanWrite64IndexSimpleLoop



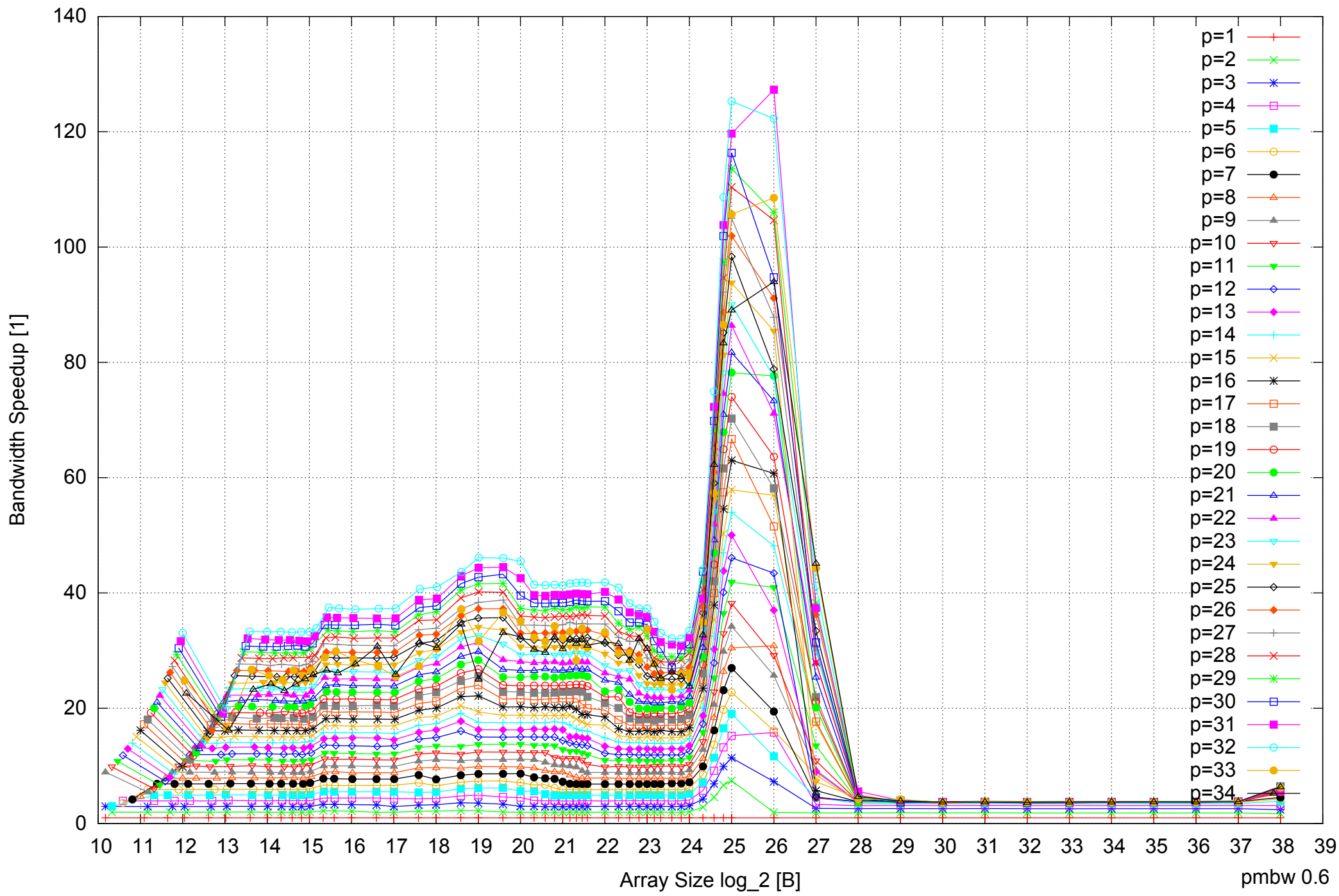
Intel Xeon E7-8837 512GB - Memory Bandwidth - ScanWrite64IndexUnrollLoop



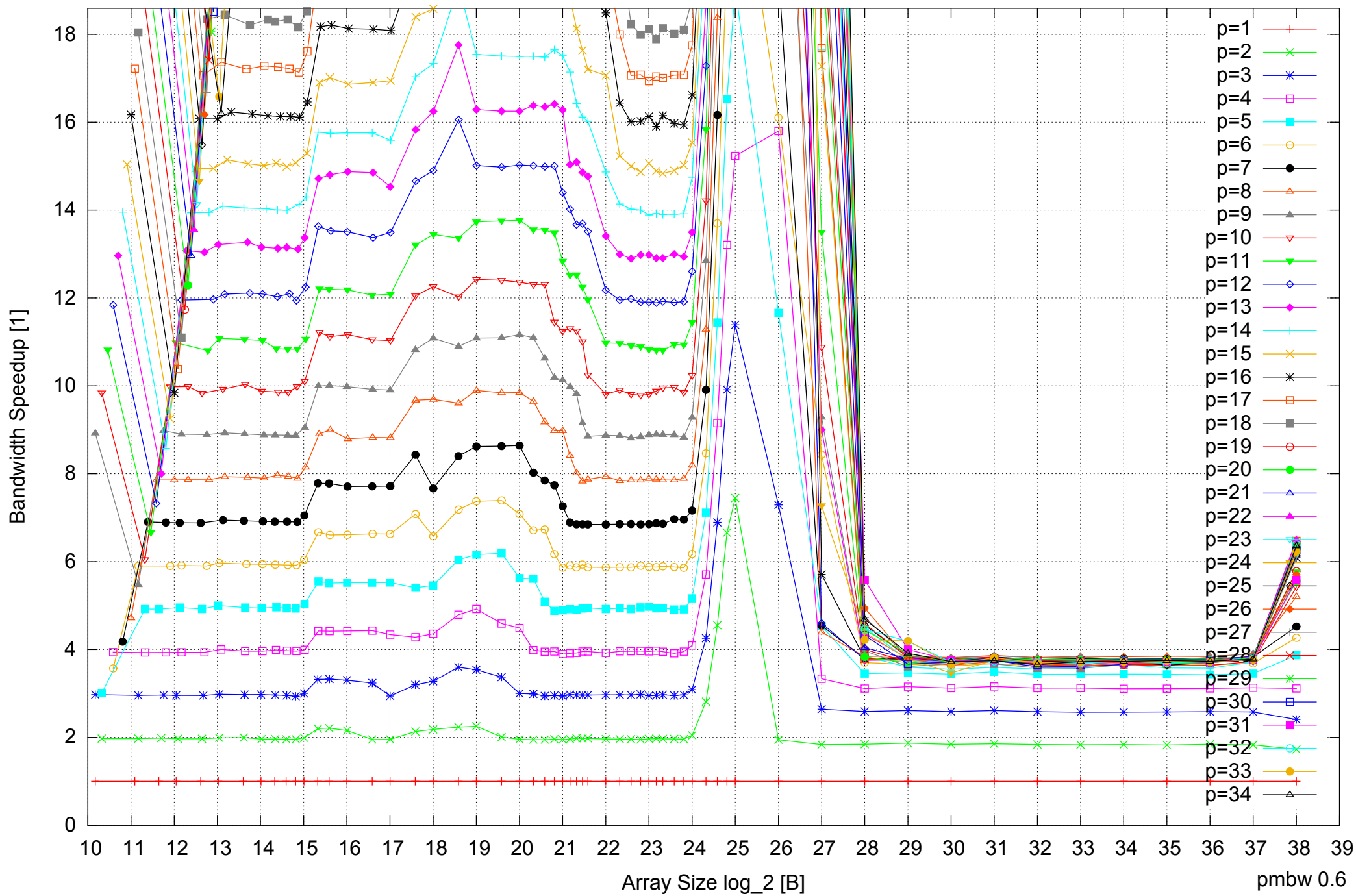




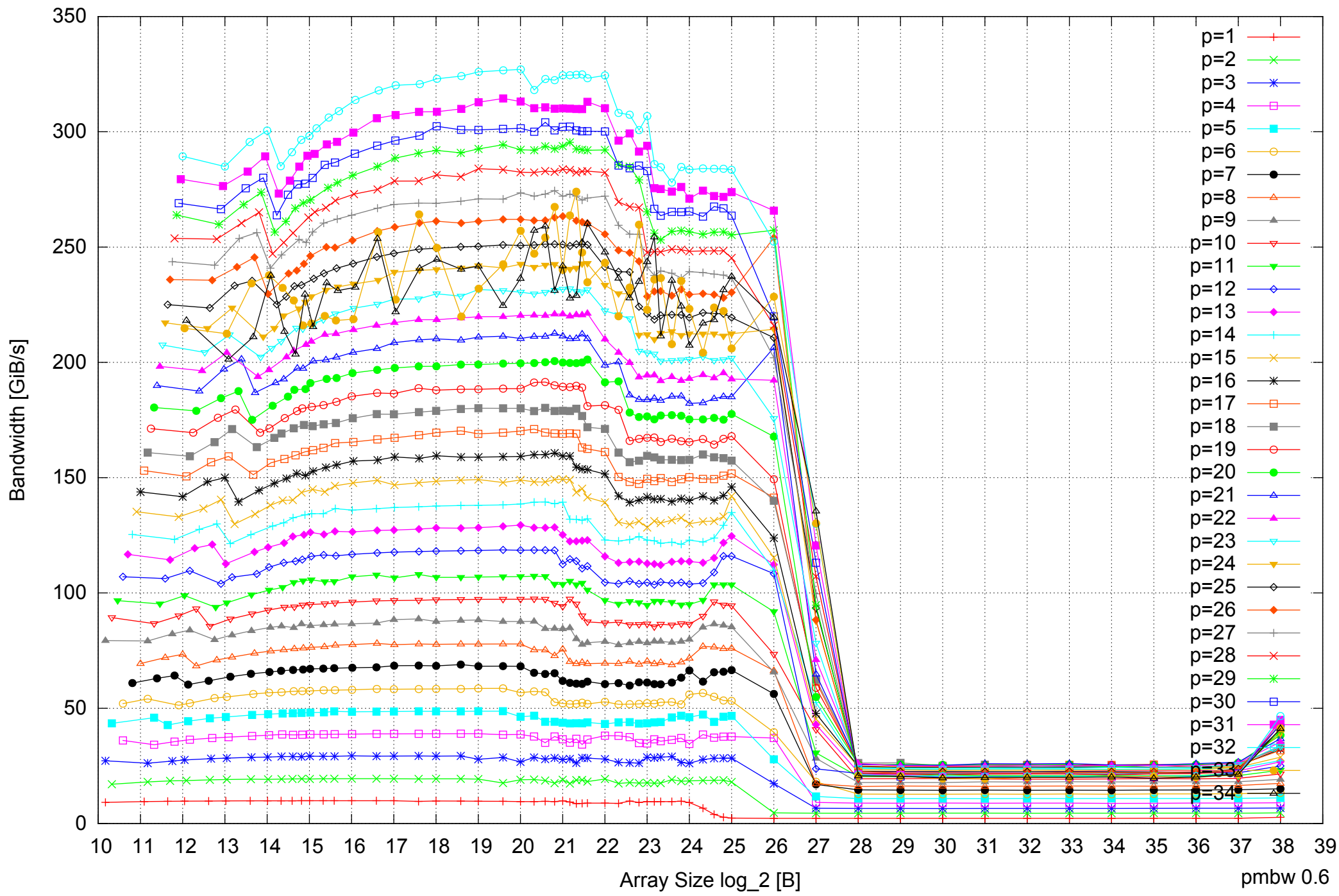
Intel Xeon E7-8837 512GB - Speedup of Memory Bandwidth - ScanWrite64IndexUnrollLoop



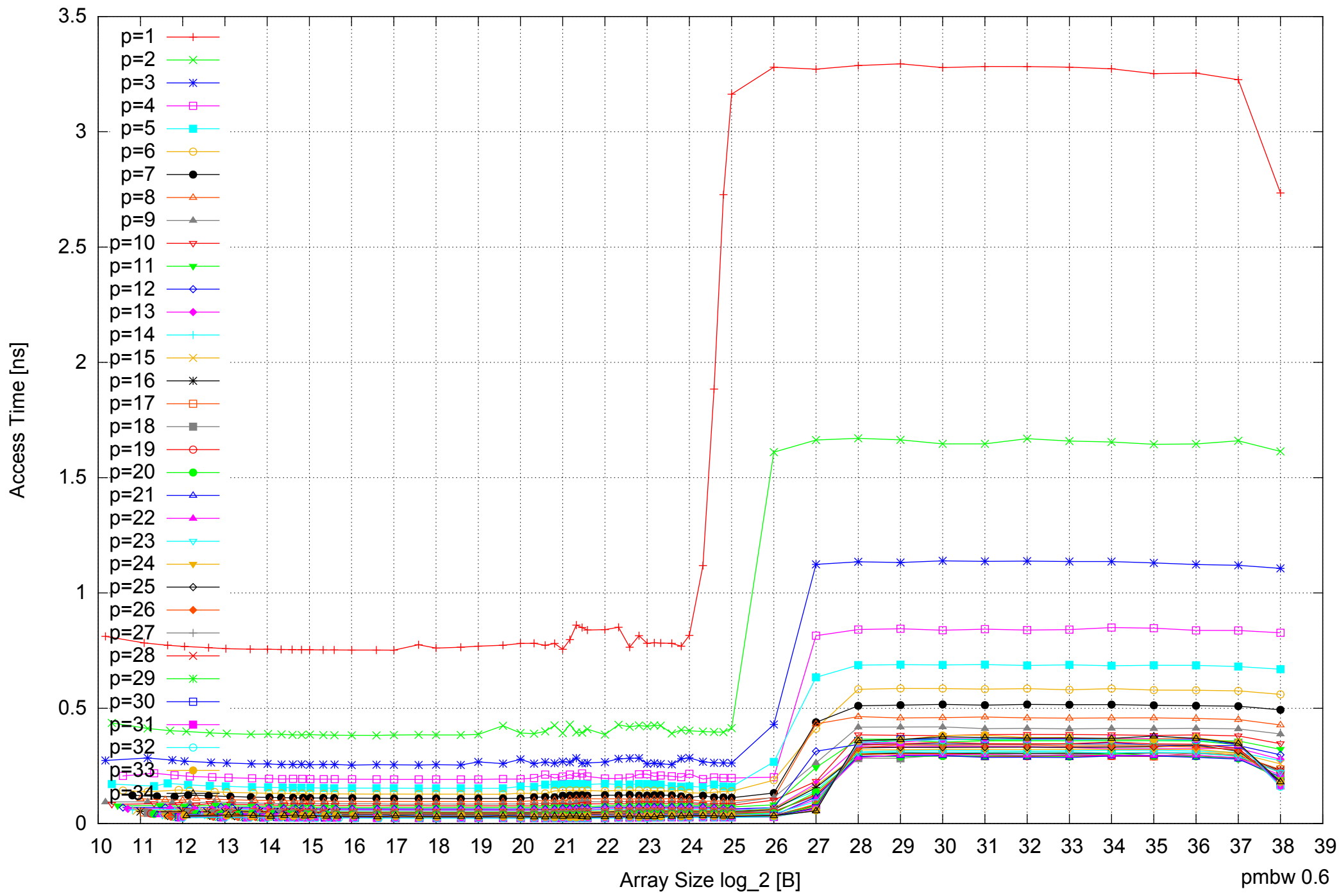
Intel Xeon E7-8837 512GB - Speedup of Memory Bandwidth (enlarged) - ScanWrite64IndexUnrollLoop



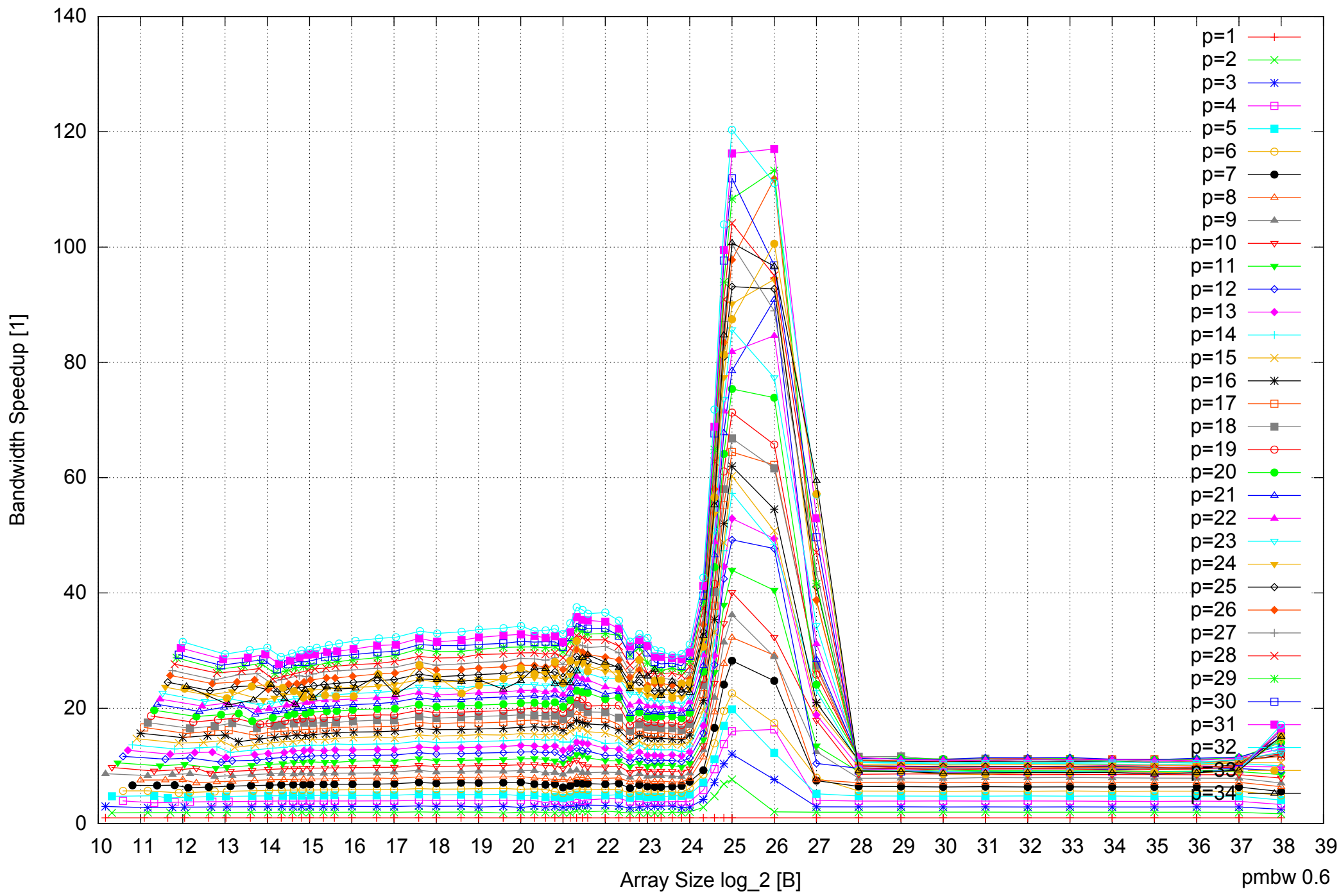
Intel Xeon E7-8837 512GB - Memory Bandwidth - ScanRead64IndexSimpleLoop



Intel Xeon E7-8837 512GB - Memory Latency - ScanRead64IndexSimpleLoop

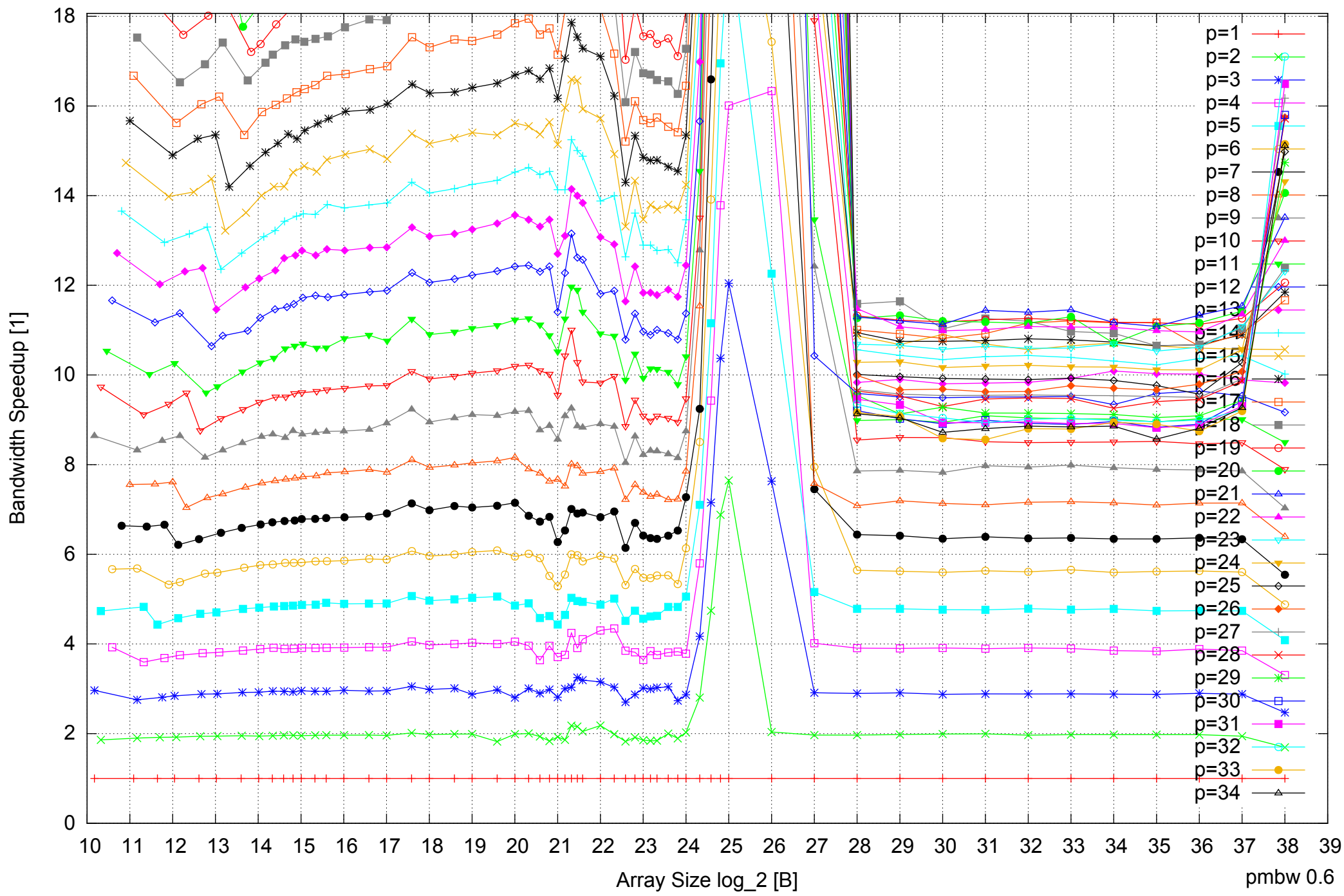


Intel Xeon E7-8837 512GB - Speedup of Memory Bandwidth - ScanRead64IndexSimpleLoop

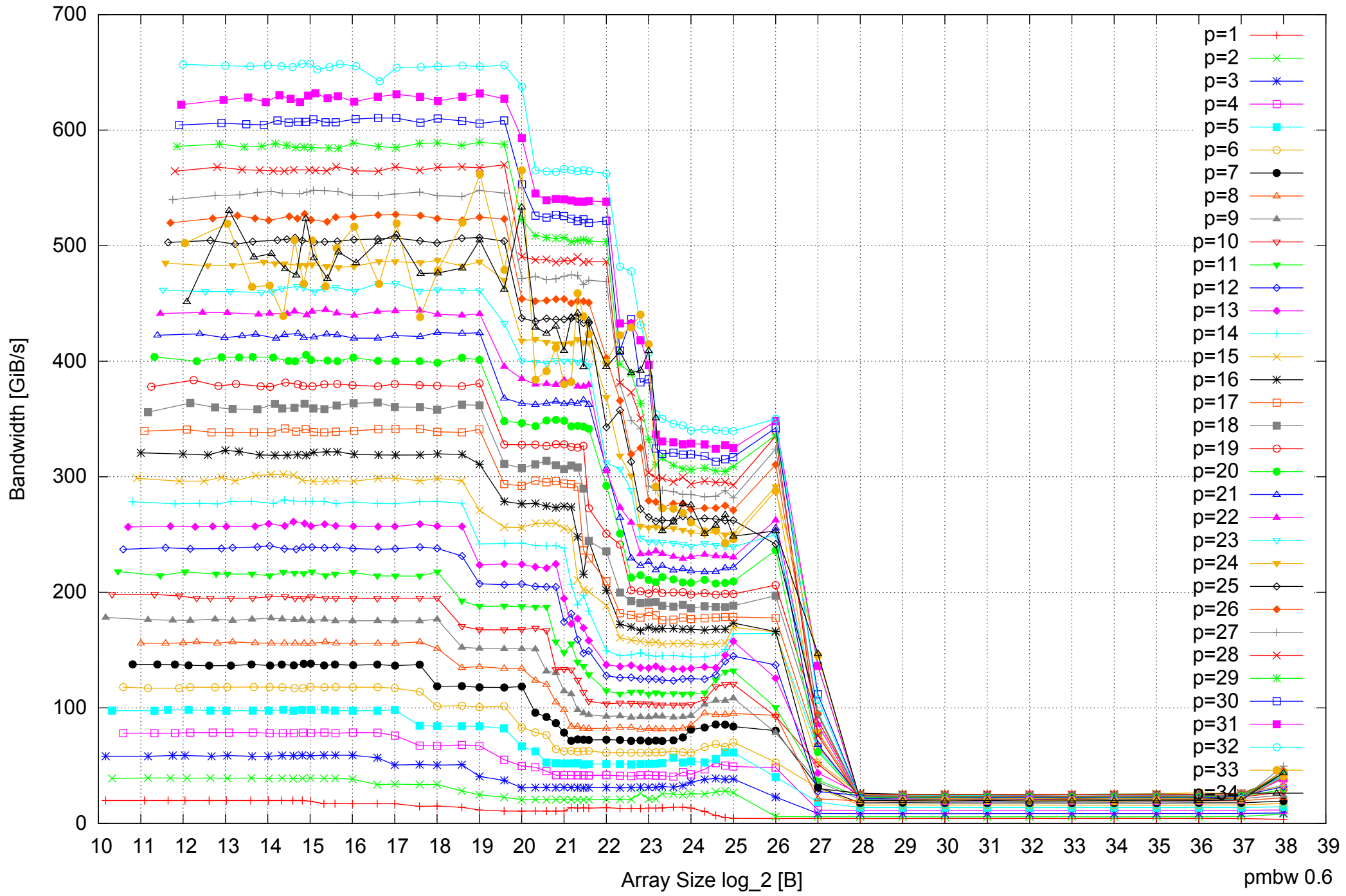




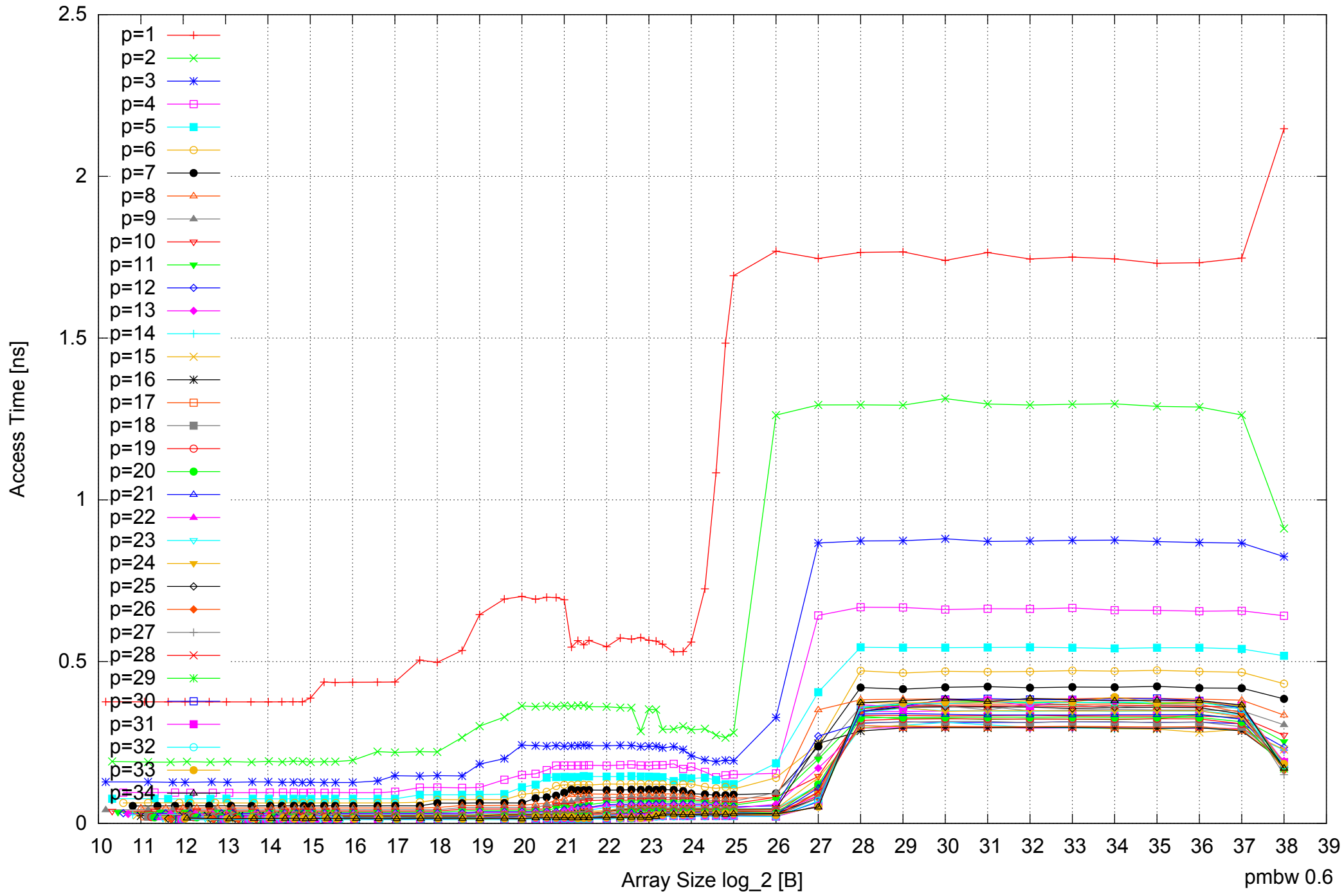
Intel Xeon E7-8837 512GB - Speedup of Memory Bandwidth (enlarged) - ScanRead64IndexSimpleLoop



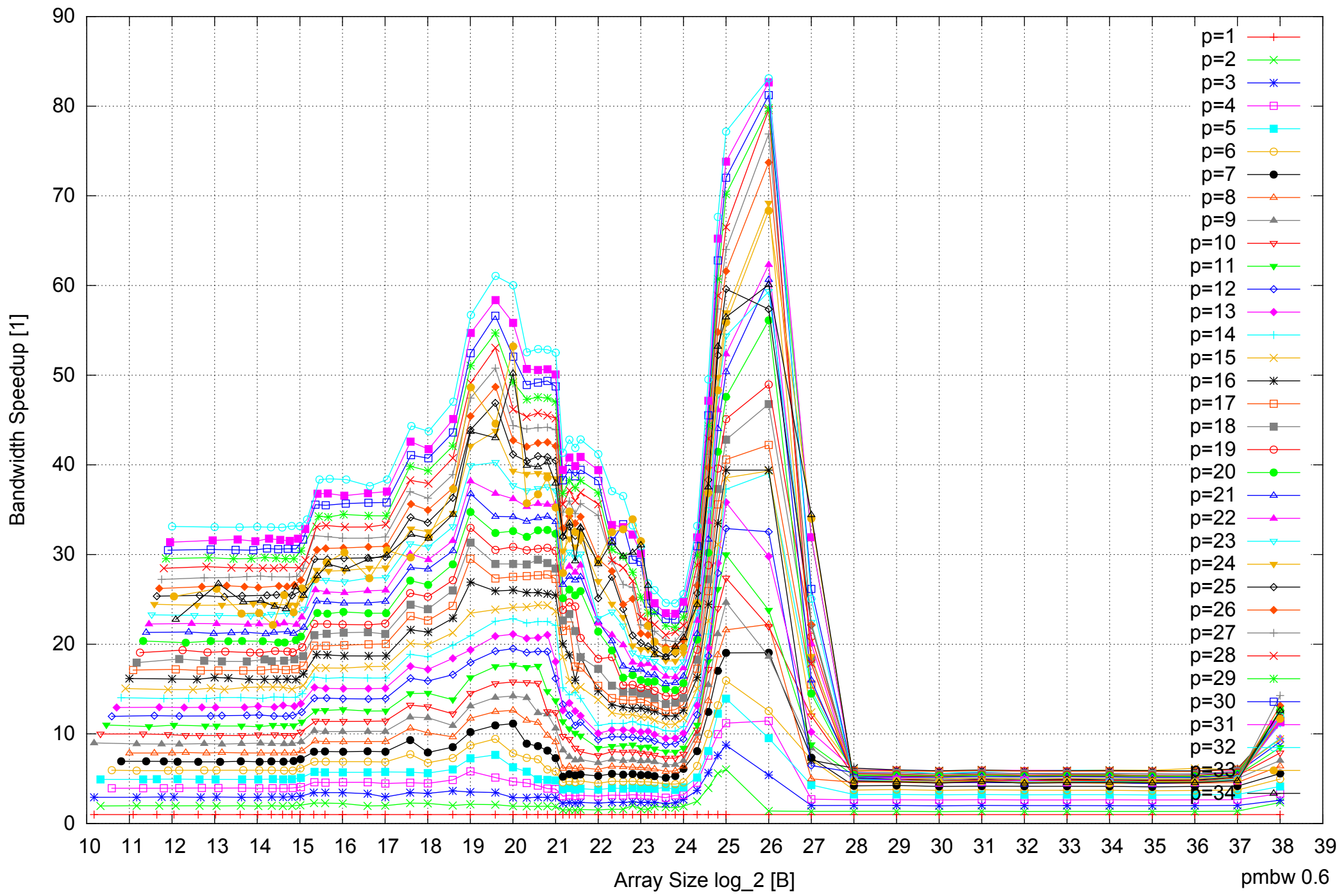
Intel Xeon E7-8837 512GB - Memory Bandwidth - ScanRead64IndexUnrollLoop



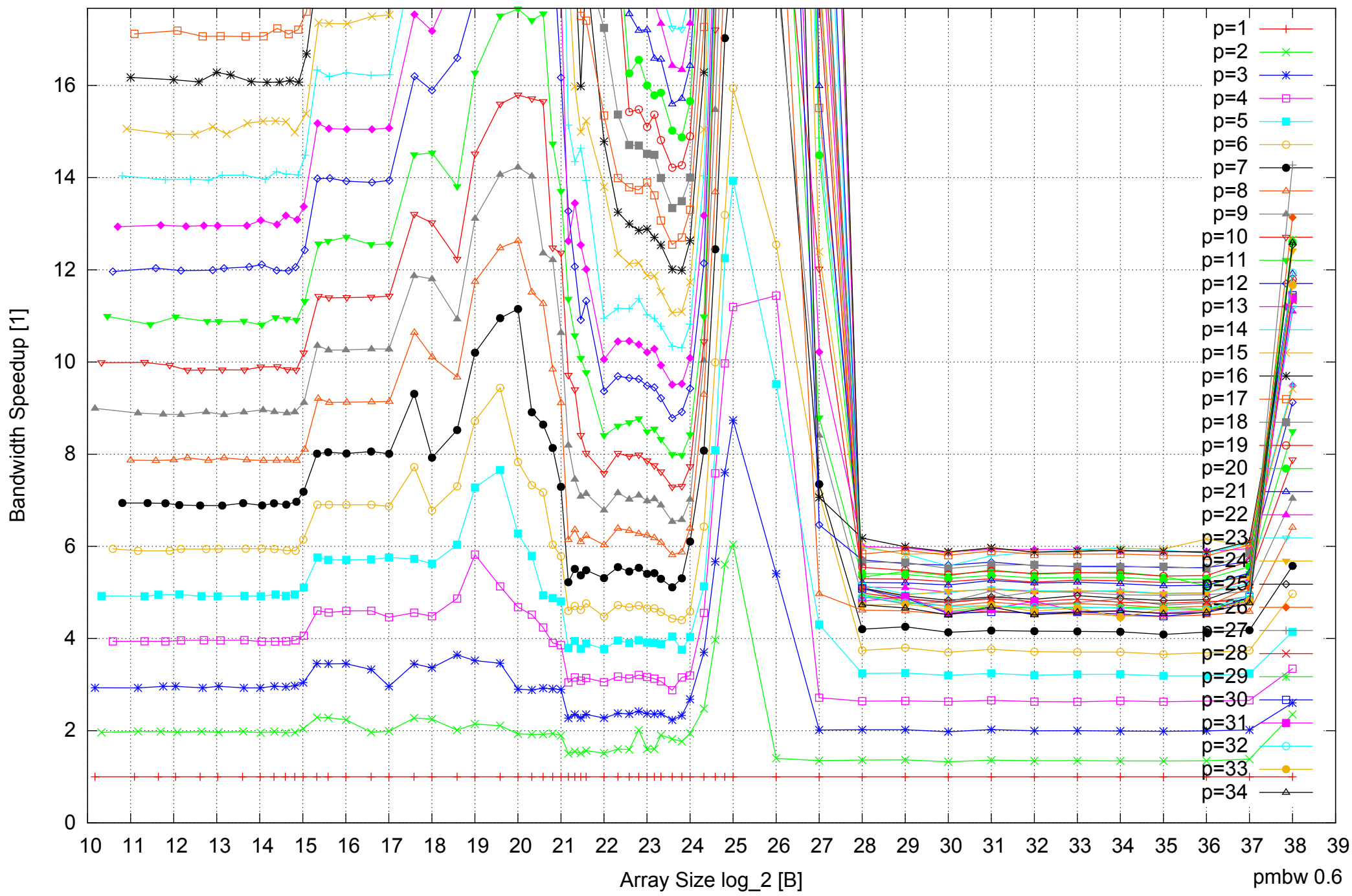
Intel Xeon E7-8837 512GB - Memory Latency - ScanRead64IndexUnrollLoop



Intel Xeon E7-8837 512GB - Speedup of Memory Bandwidth - ScanRead64IndexUnrollLoop

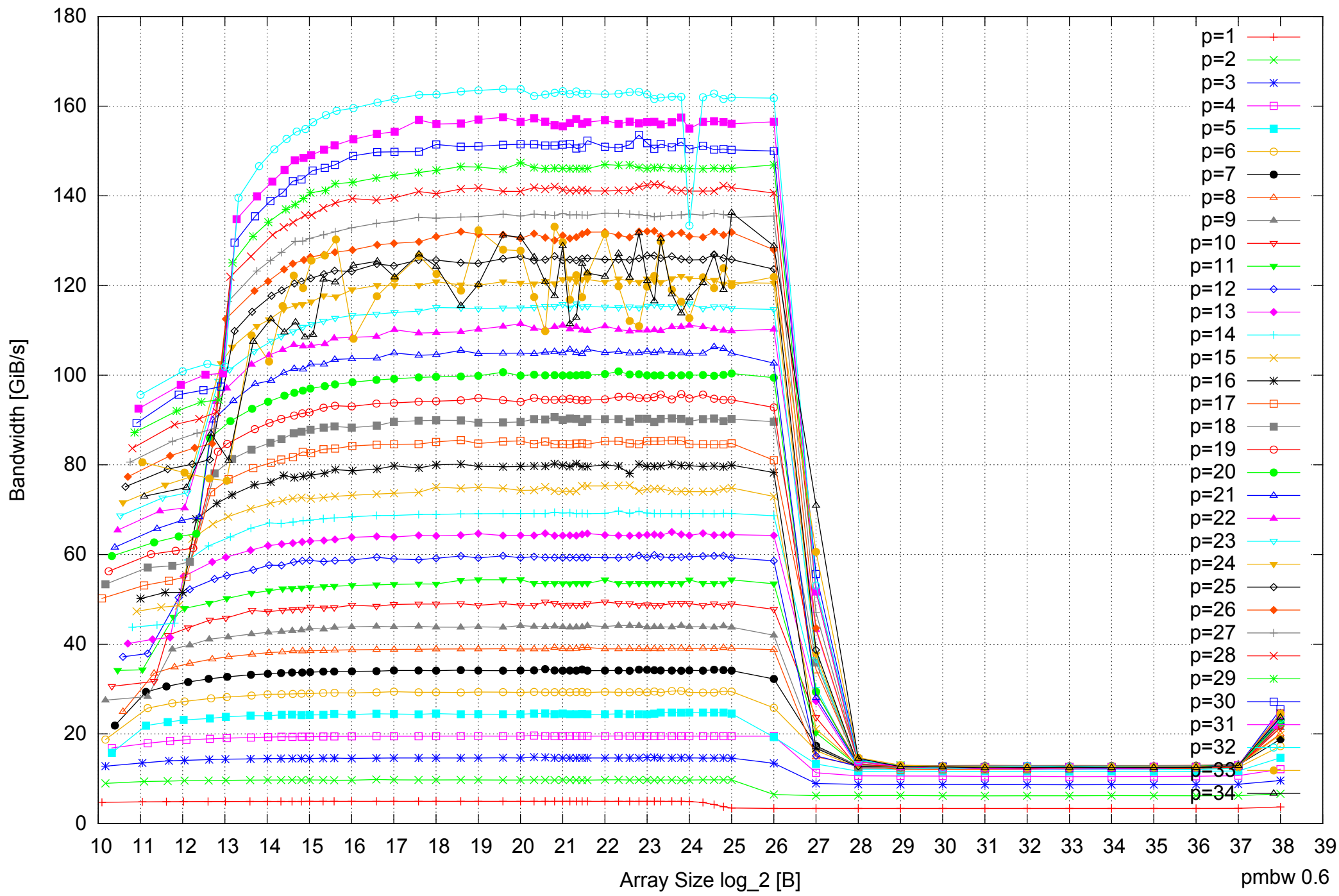


Intel Xeon E7-8837 512GB - Speedup of Memory Bandwidth (enlarged) - ScanRead64IndexUnrollLoop

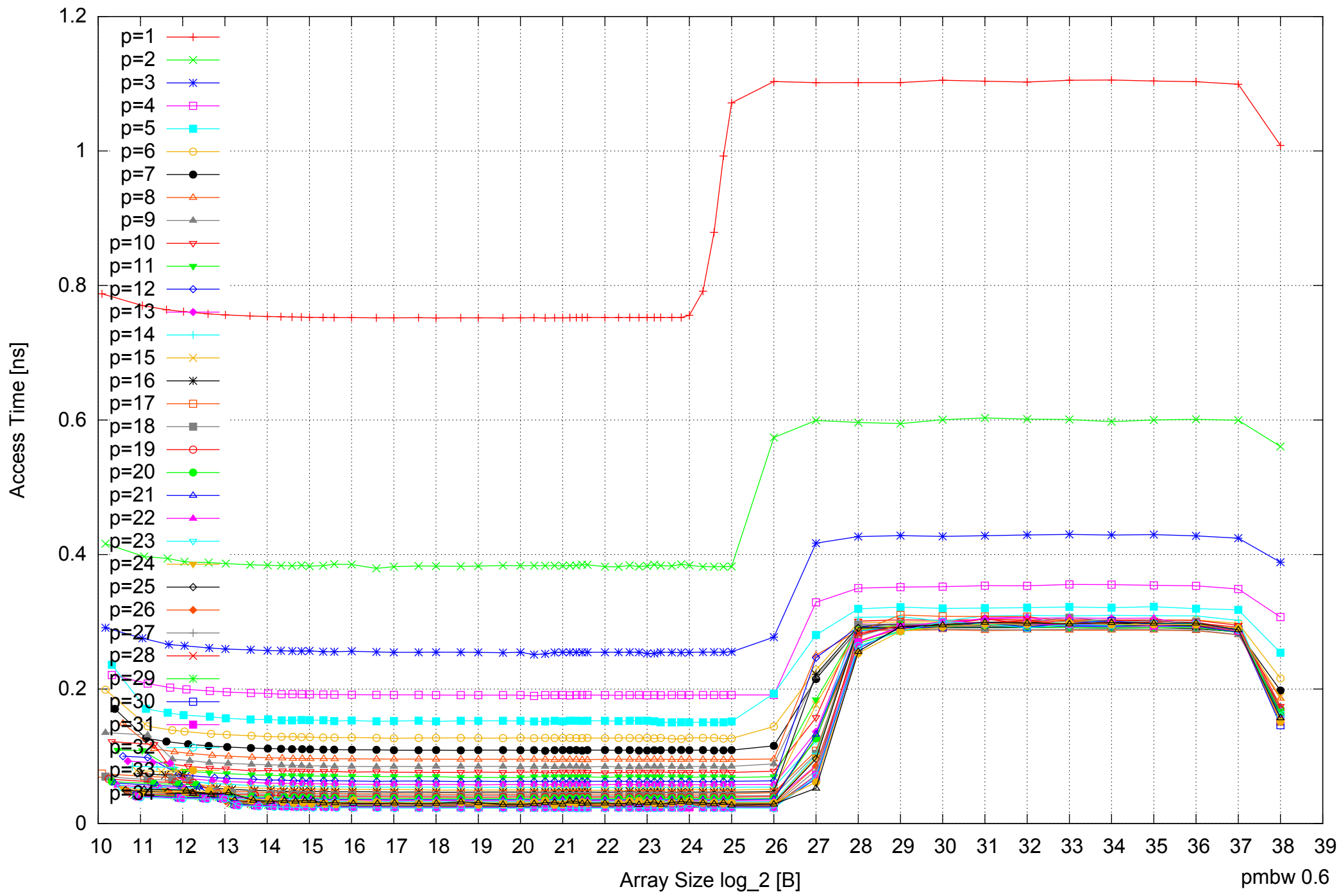




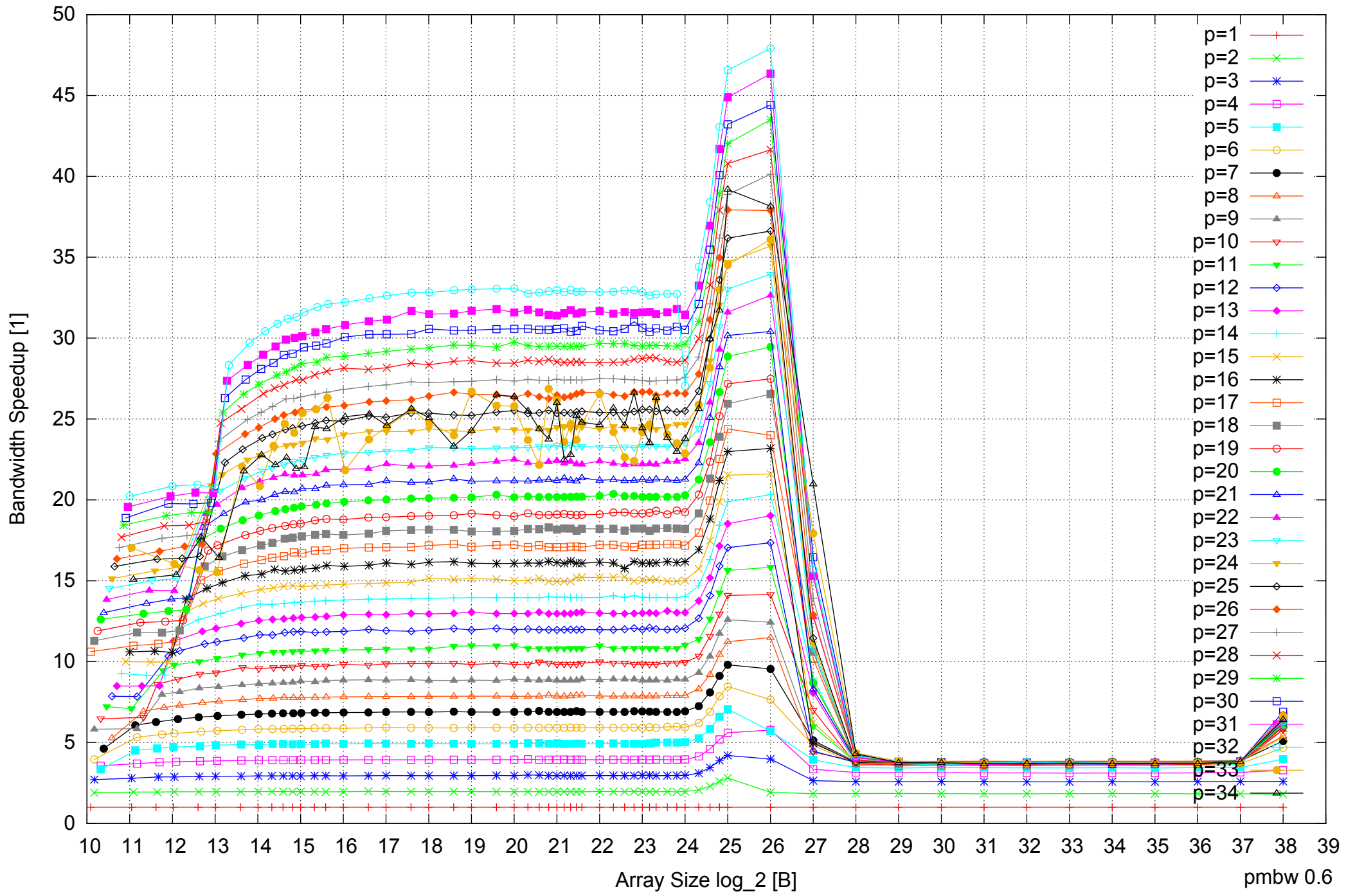
Intel Xeon E7-8837 512GB - Memory Bandwidth - ScanWrite32PtrSimpleLoop



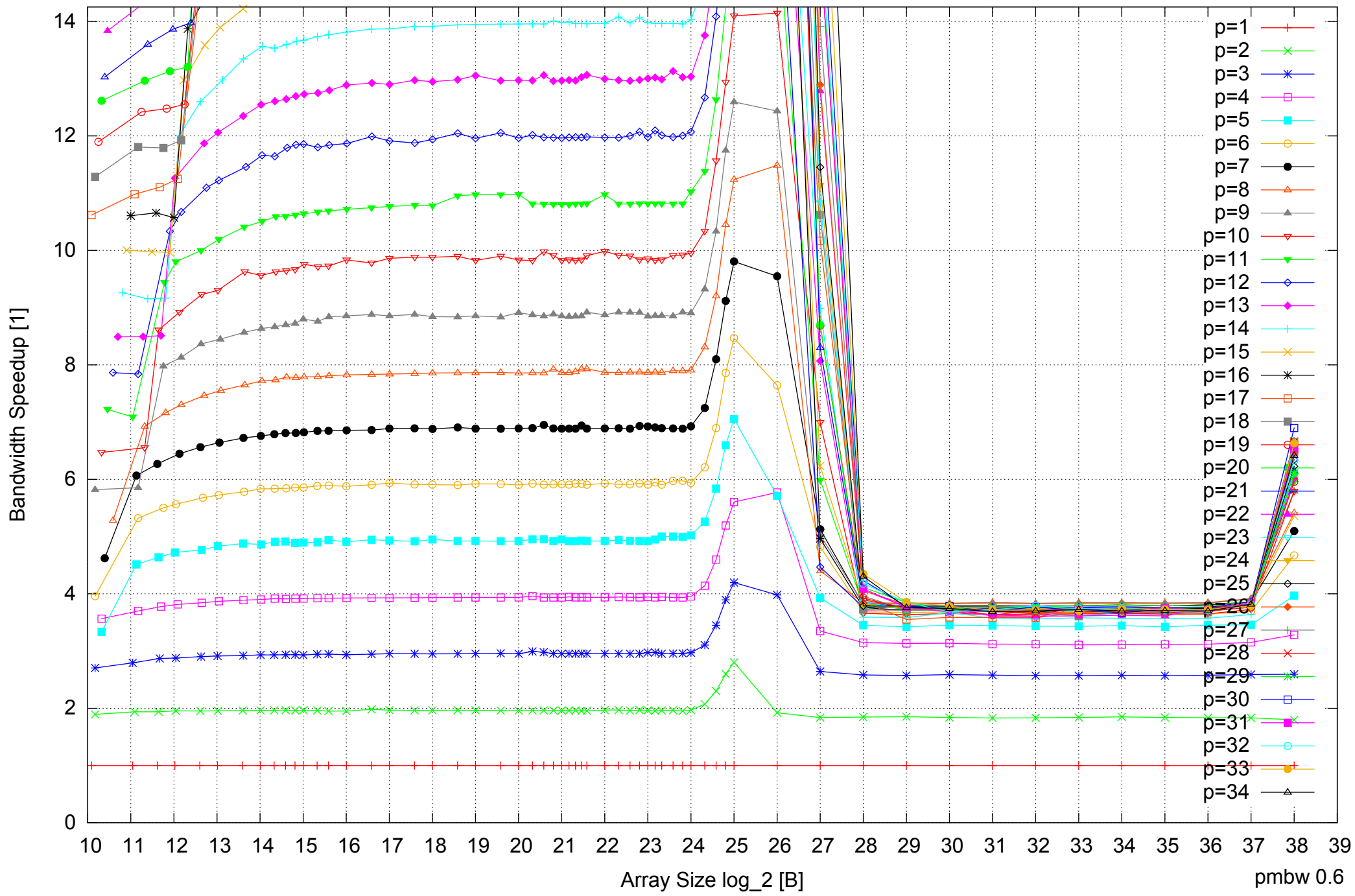
Intel Xeon E7-8837 512GB - Memory Latency - ScanWrite32PtrSimpleLoop



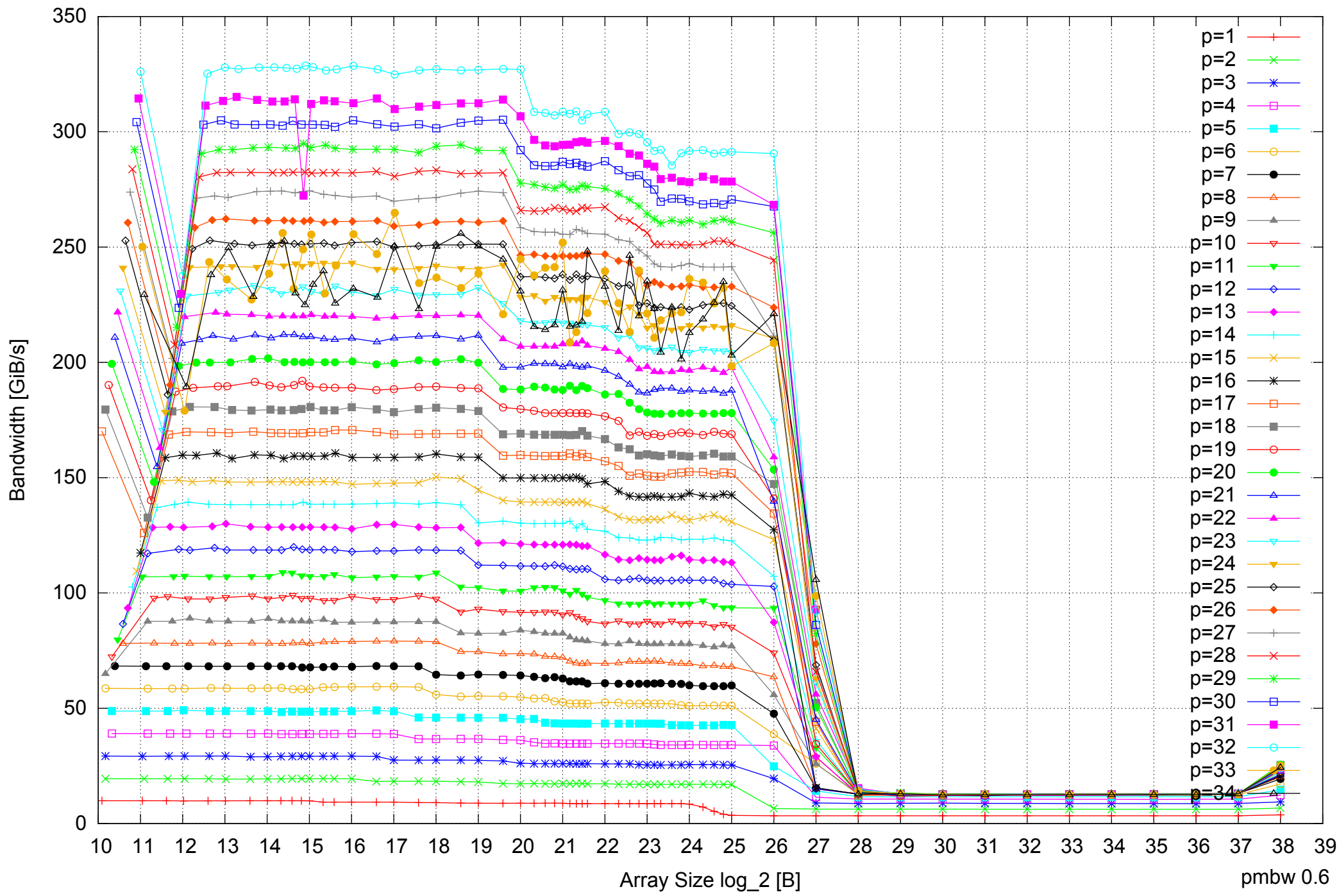
Intel Xeon E7-8837 512GB - Speedup of Memory Bandwidth - ScanWrite32PtrSimpleLoop



Intel Xeon E7-8837 512GB - Speedup of Memory Bandwidth (enlarged) - ScanWrite32PtrSimpleLoop

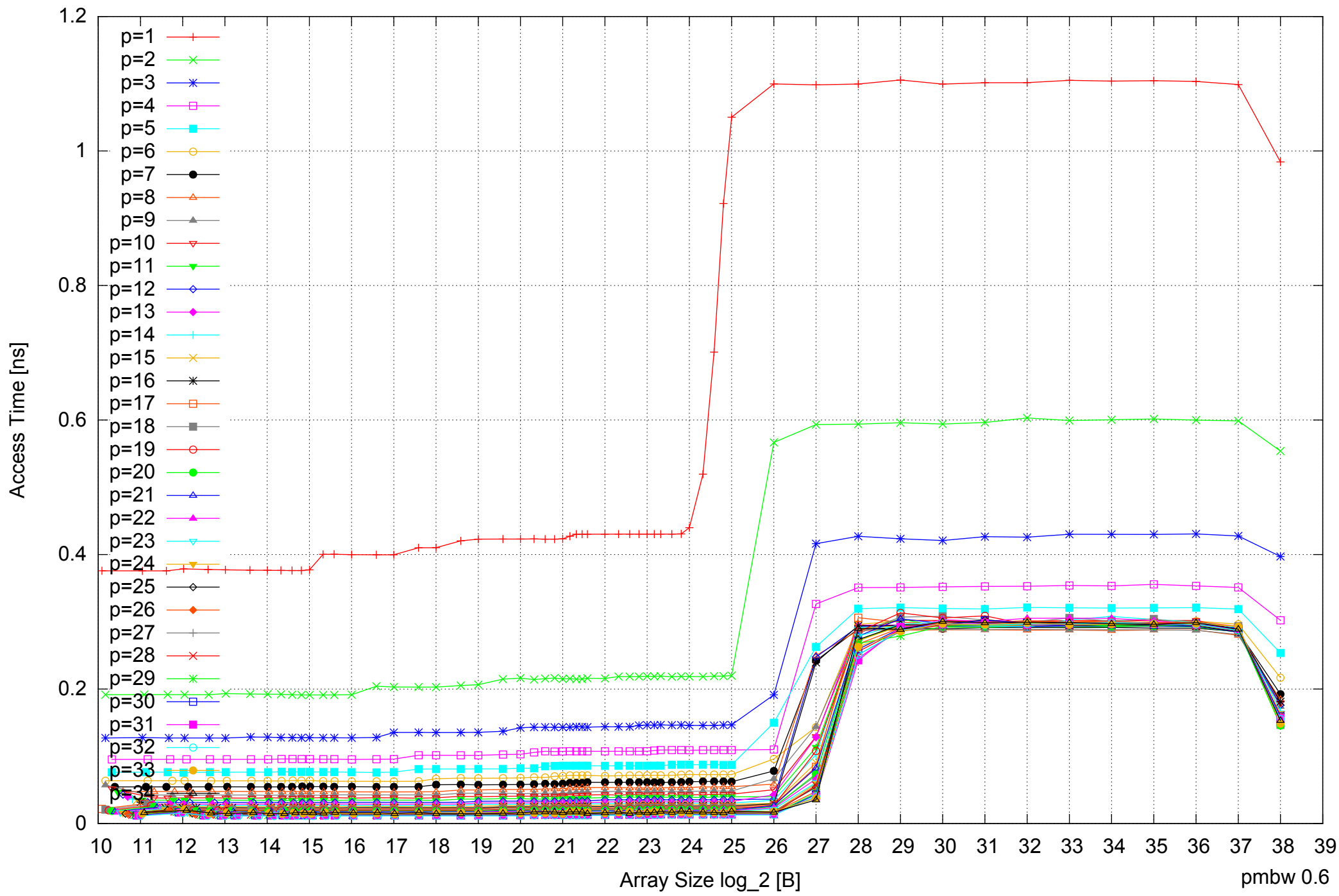


Intel Xeon E7-8837 512GB - Memory Bandwidth - ScanWrite32PtrUnrollLoop



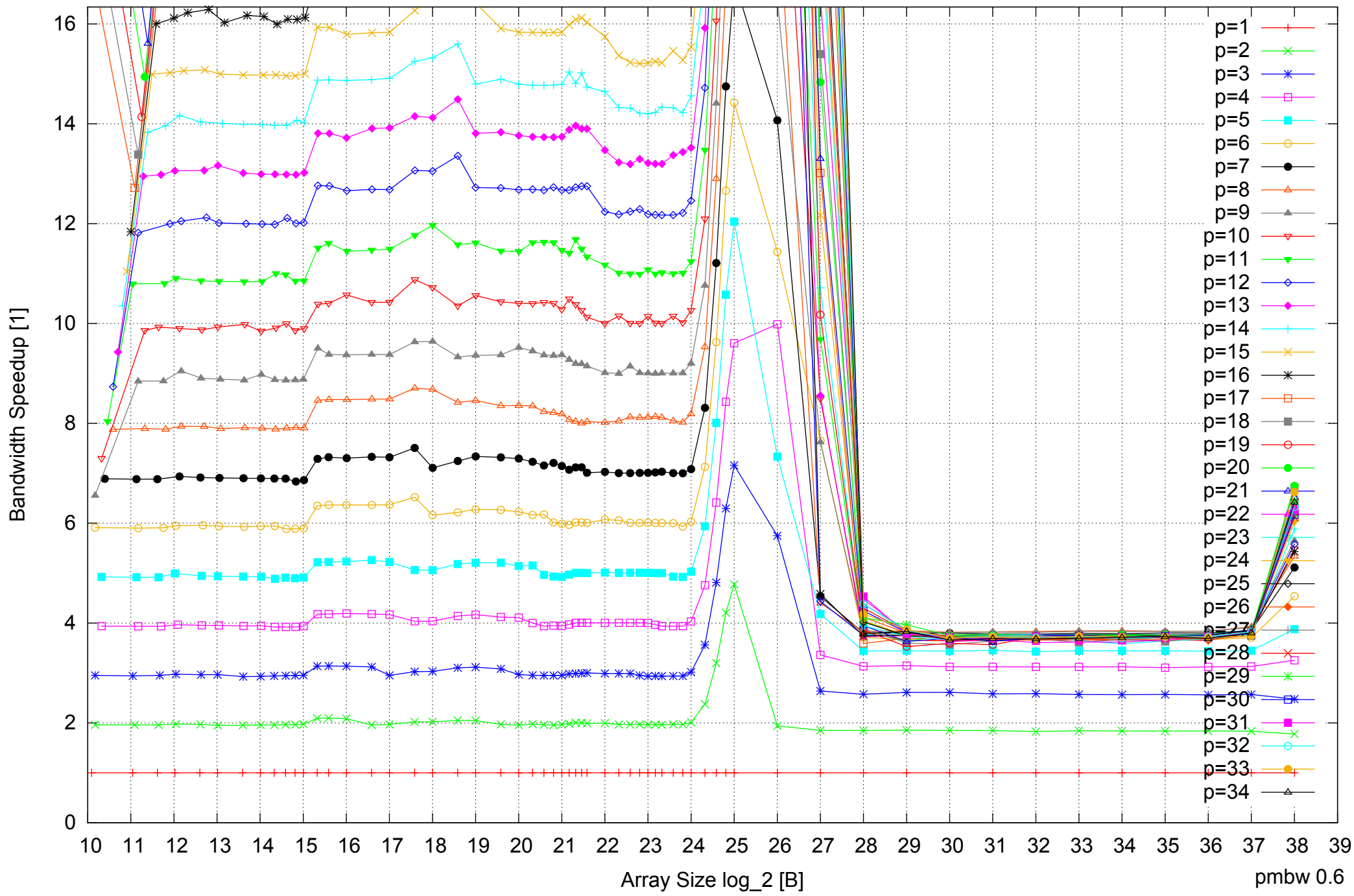


Intel Xeon E7-8837 512GB - Memory Latency - ScanWrite32PtrUnrollLoop

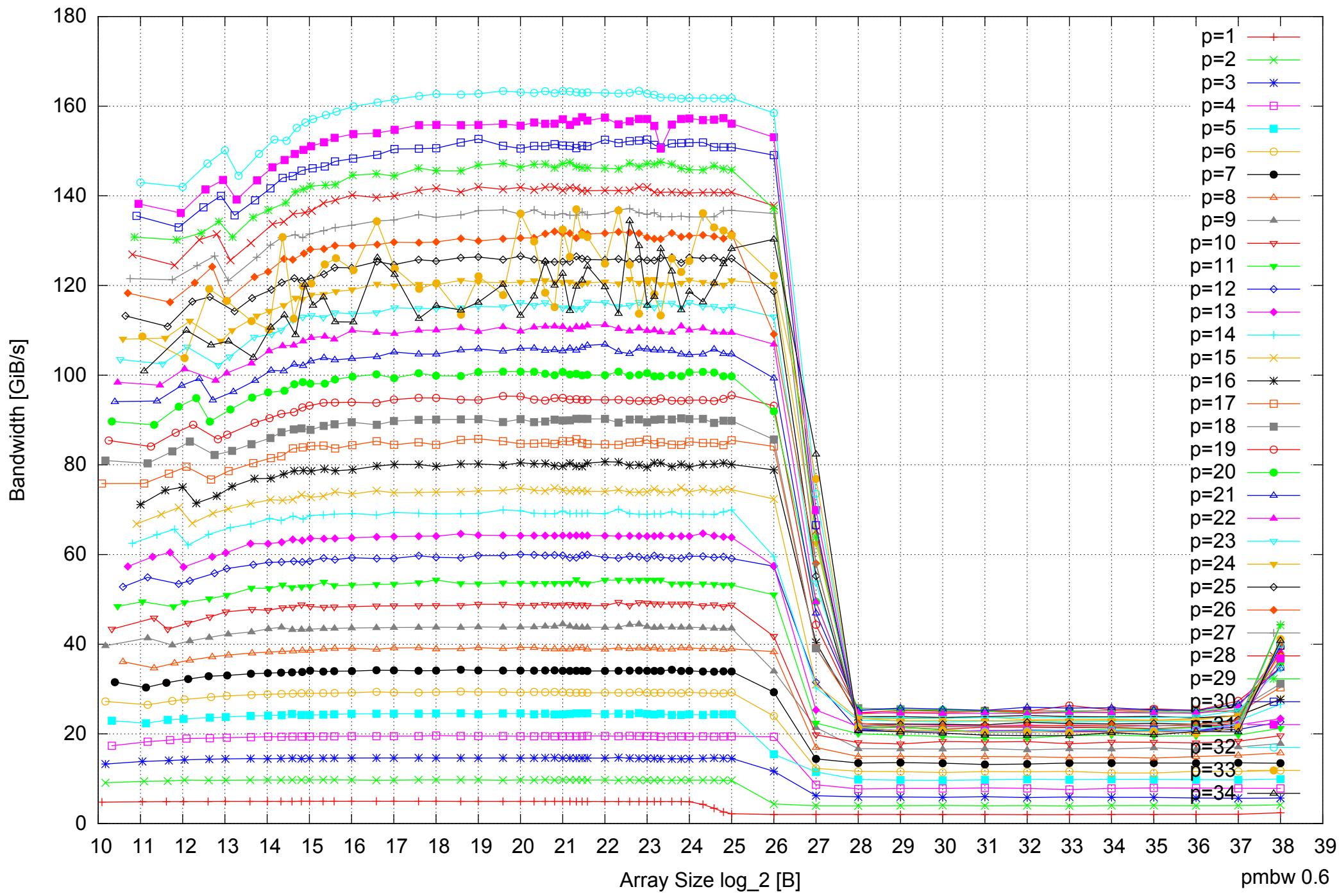




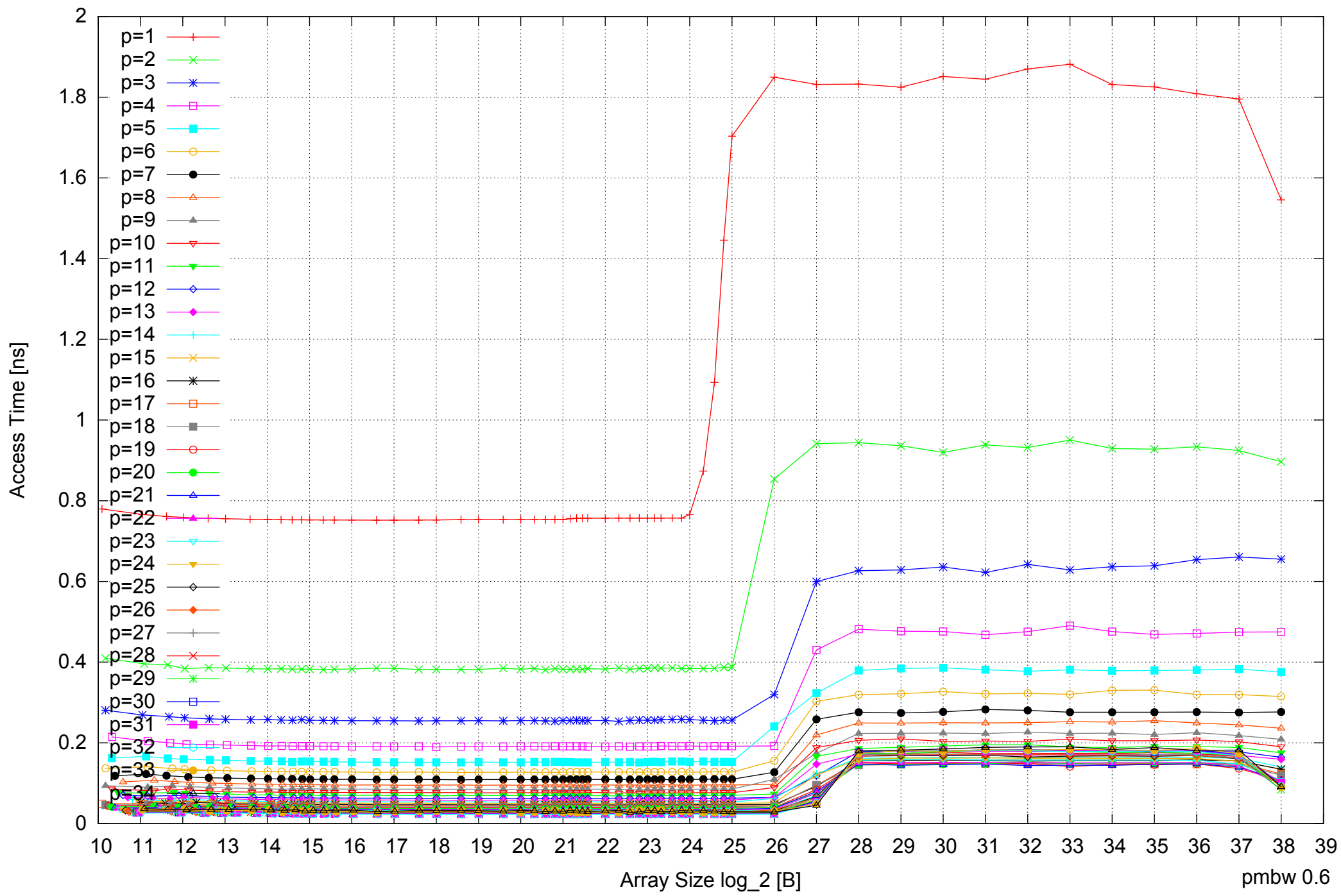
Intel Xeon E7-8837 512GB - Speedup of Memory Bandwidth (enlarged) - ScanWrite32PtrUnrollLoop



Intel Xeon E7-8837 512GB - Memory Bandwidth - ScanRead32PtrSimpleLoop

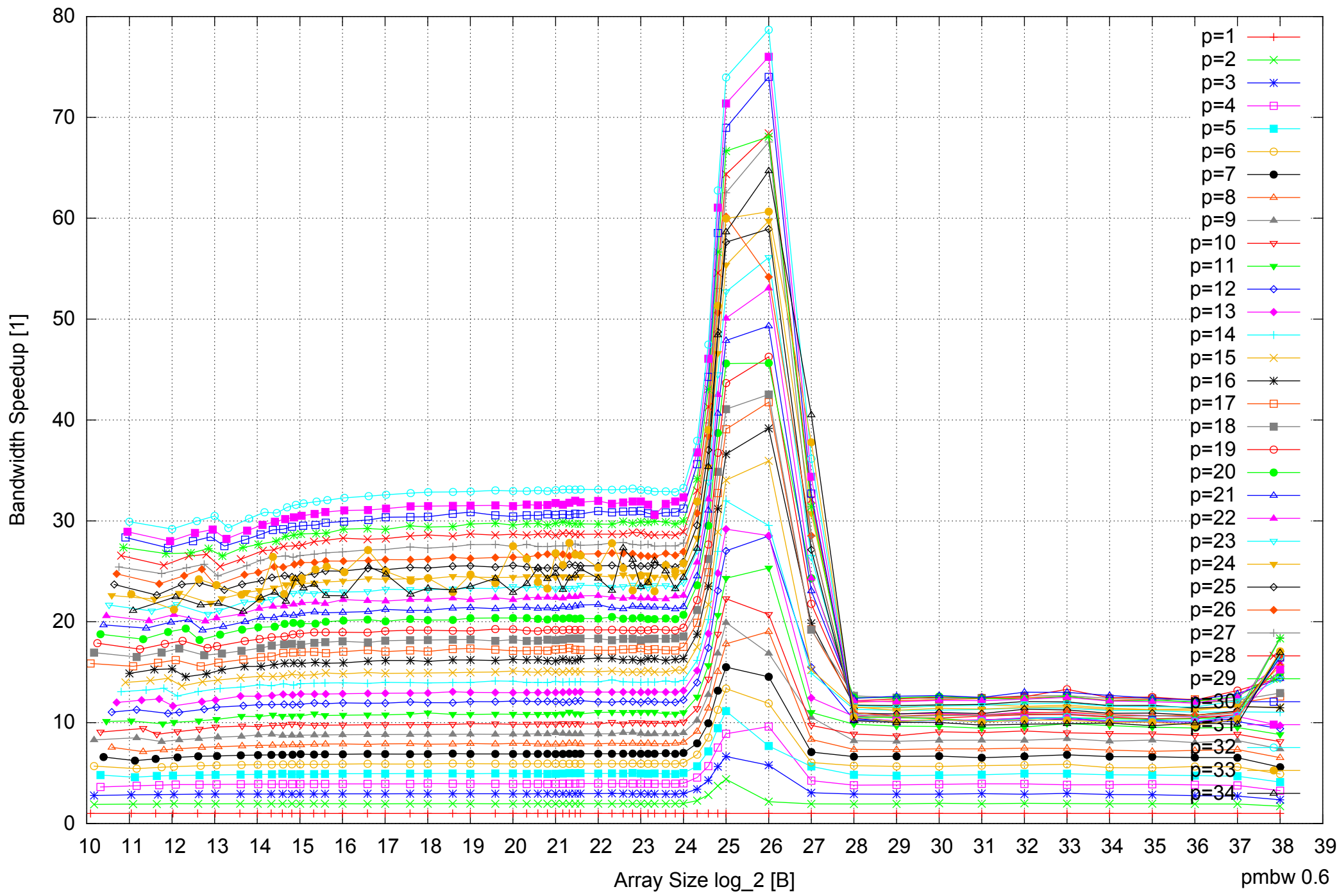


Intel Xeon E7-8837 512GB - Memory Latency - ScanRead32PtrSimpleLoop

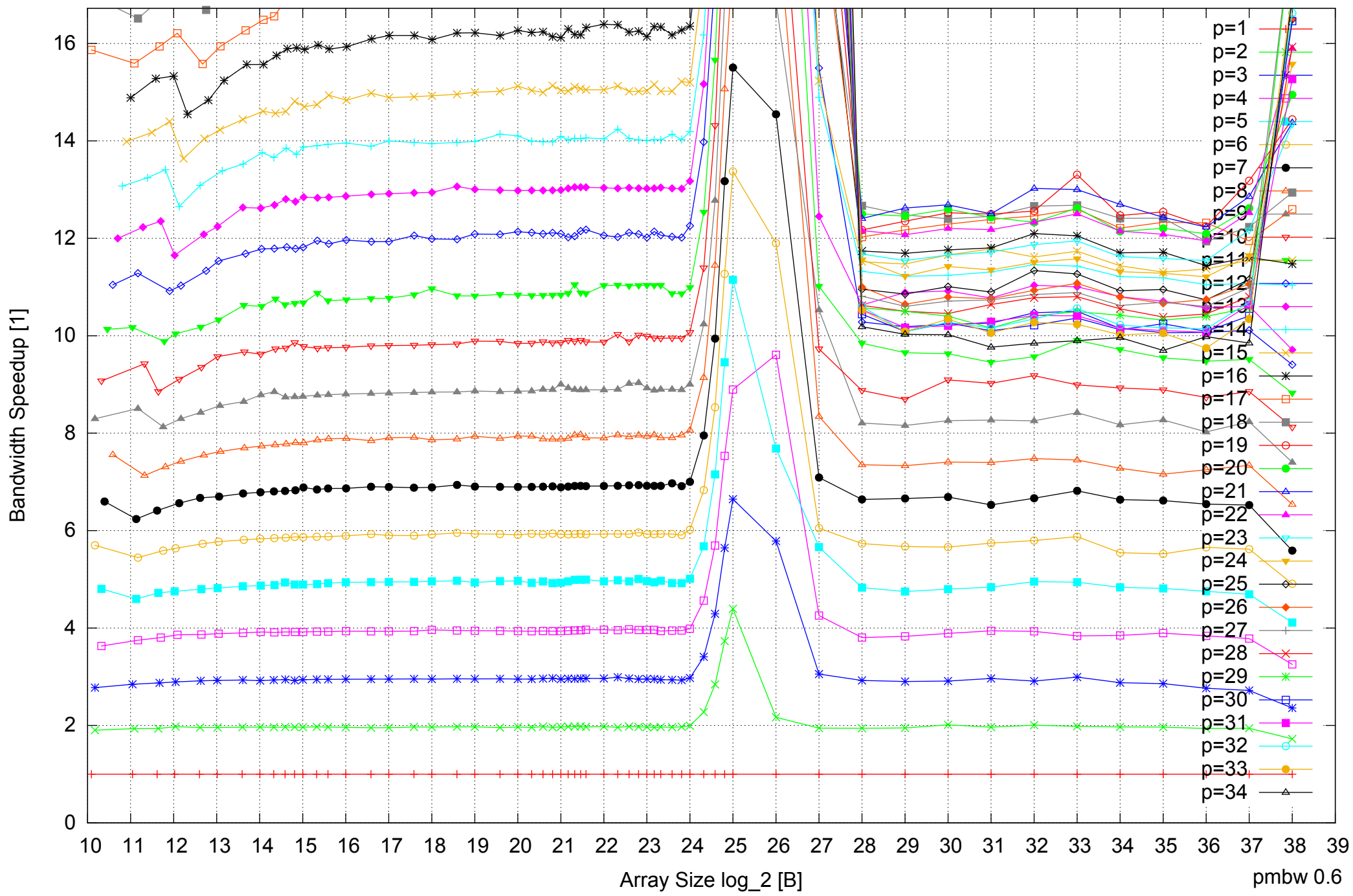




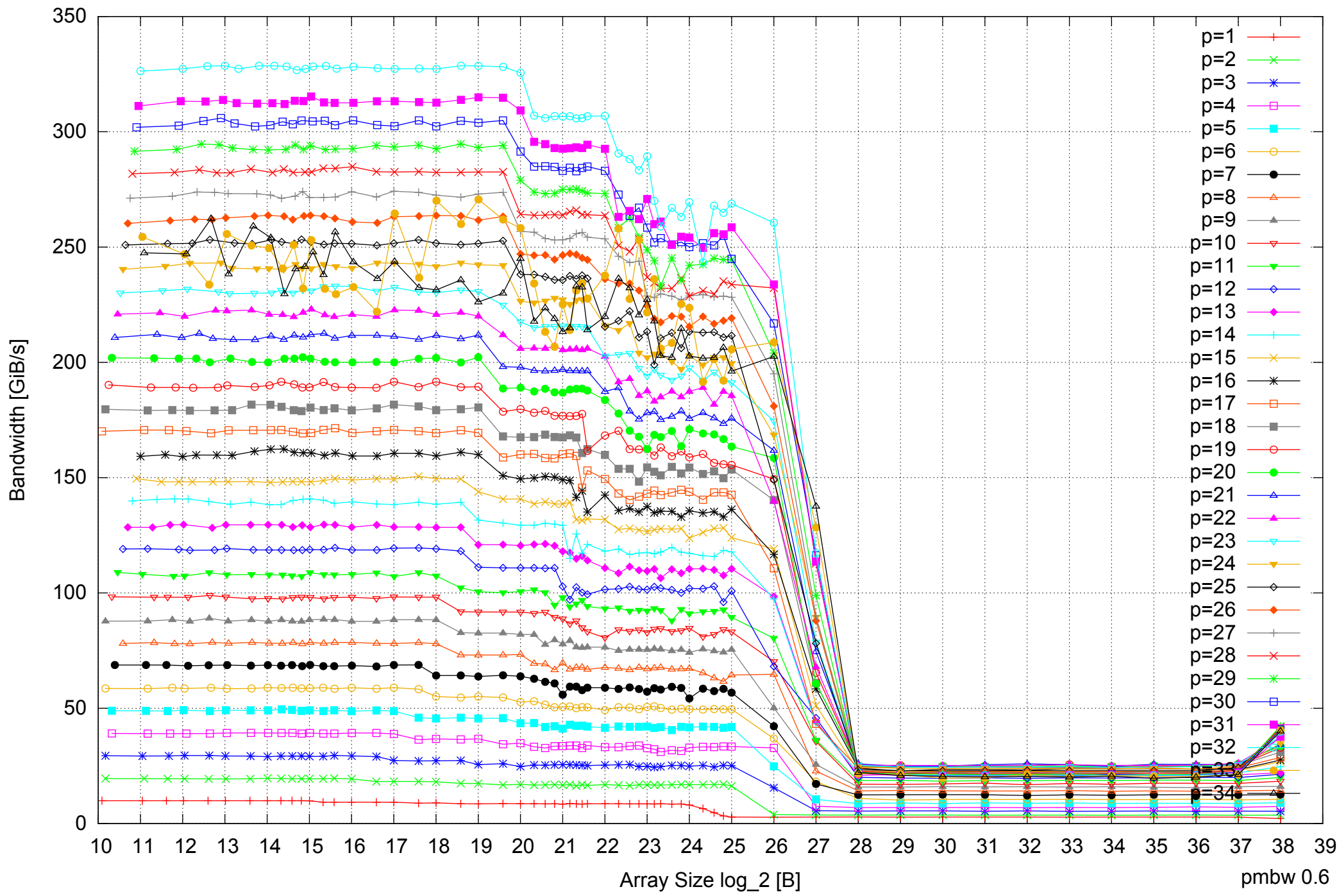
Intel Xeon E7-8837 512GB - Speedup of Memory Bandwidth - ScanRead32PtrSimpleLoop



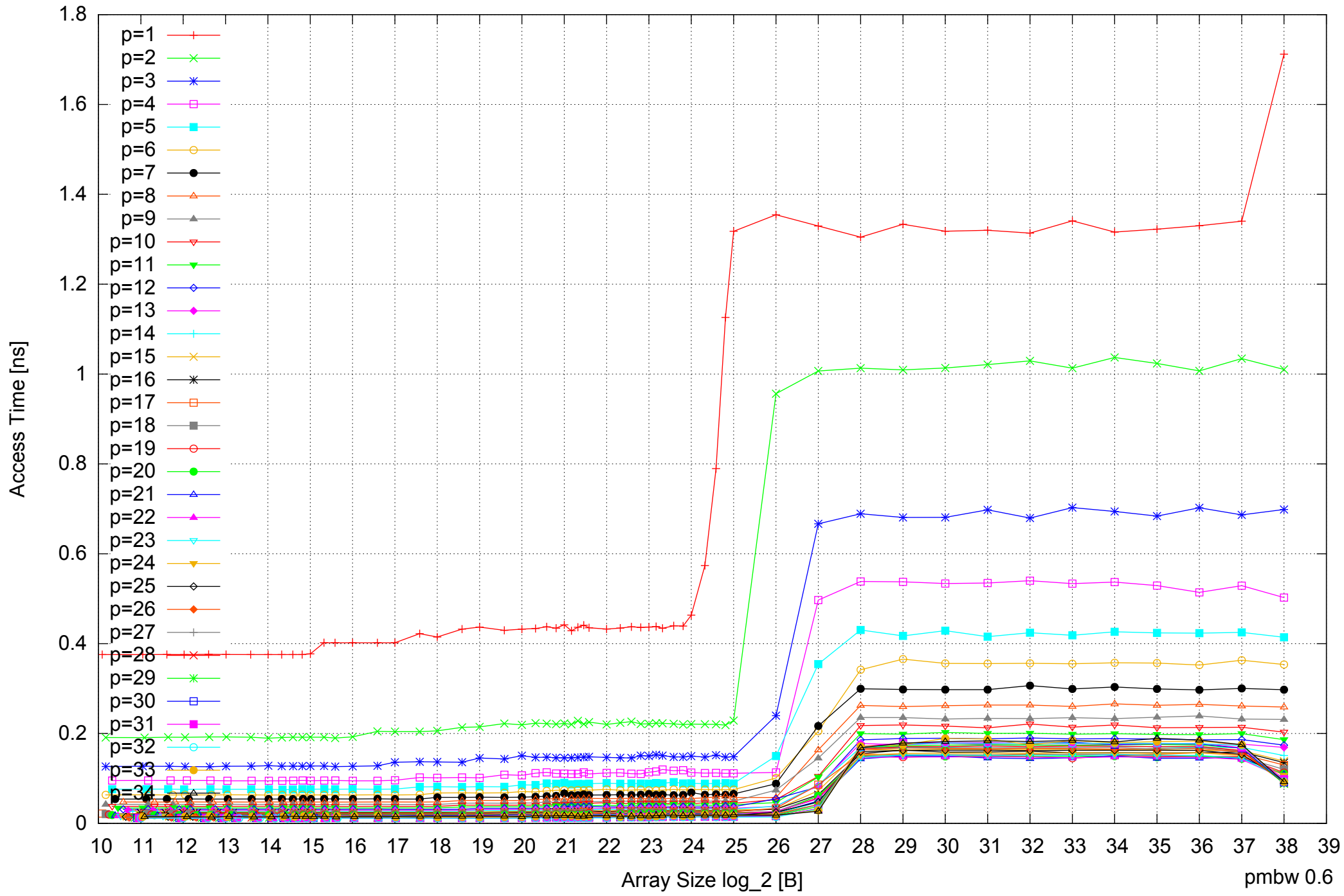
Intel Xeon E7-8837 512GB - Speedup of Memory Bandwidth (enlarged) - ScanRead32PtrSimpleLoop



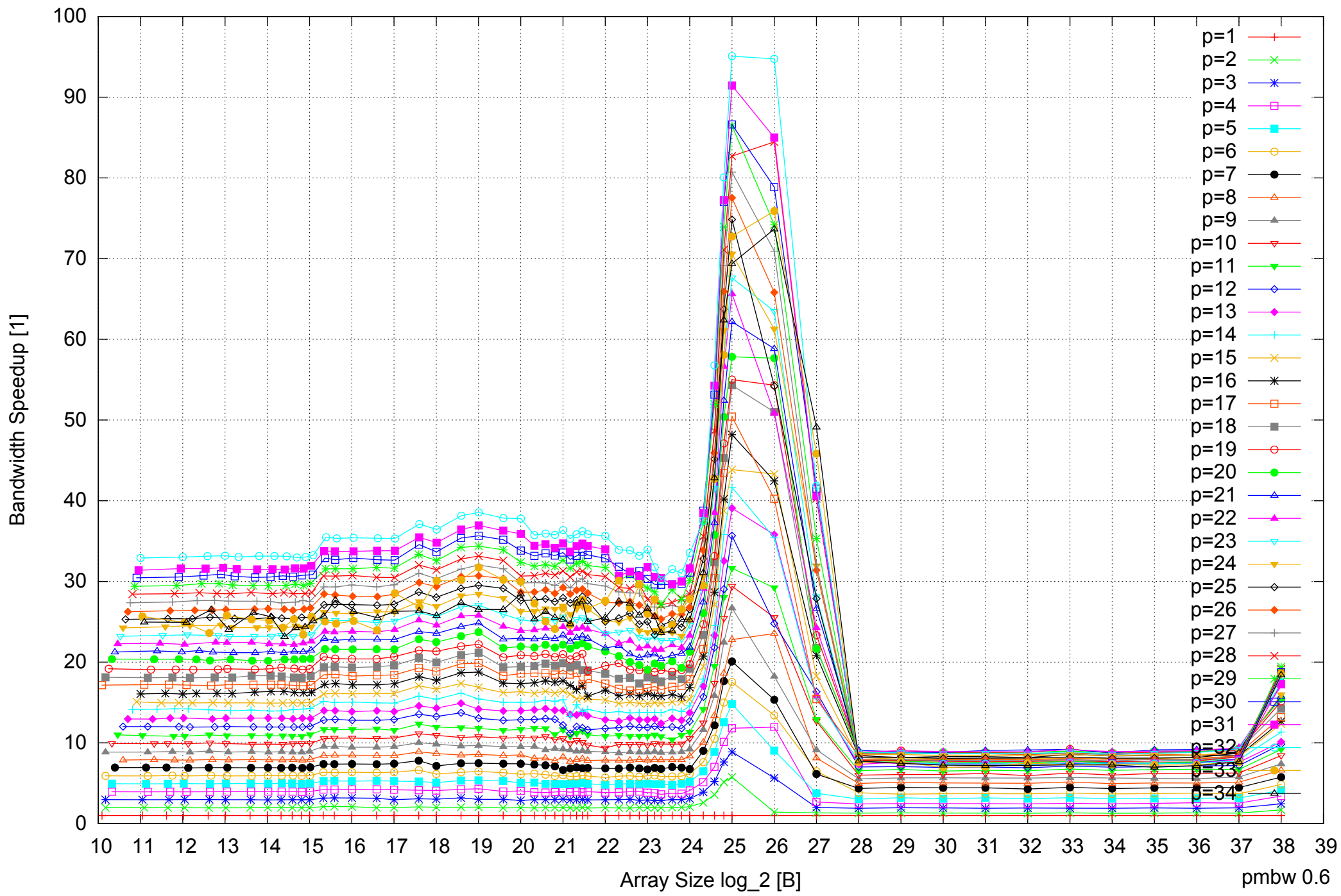
Intel Xeon E7-8837 512GB - Memory Bandwidth - ScanRead32PtrUnrollLoop



Intel Xeon E7-8837 512GB - Memory Latency - ScanRead32PtrUnrollLoop

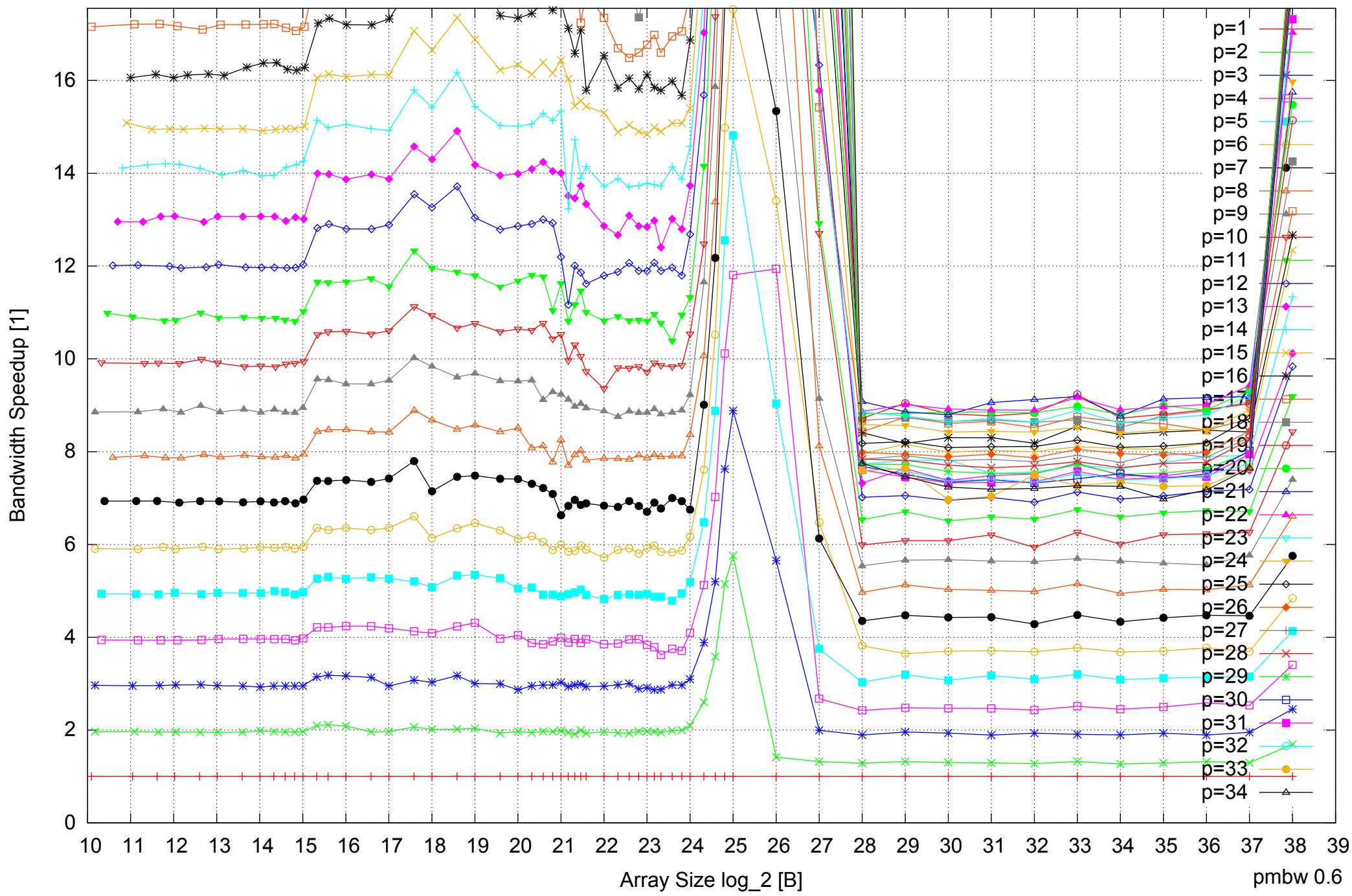


Intel Xeon E7-8837 512GB - Speedup of Memory Bandwidth - ScanRead32PtrUnrollLoop

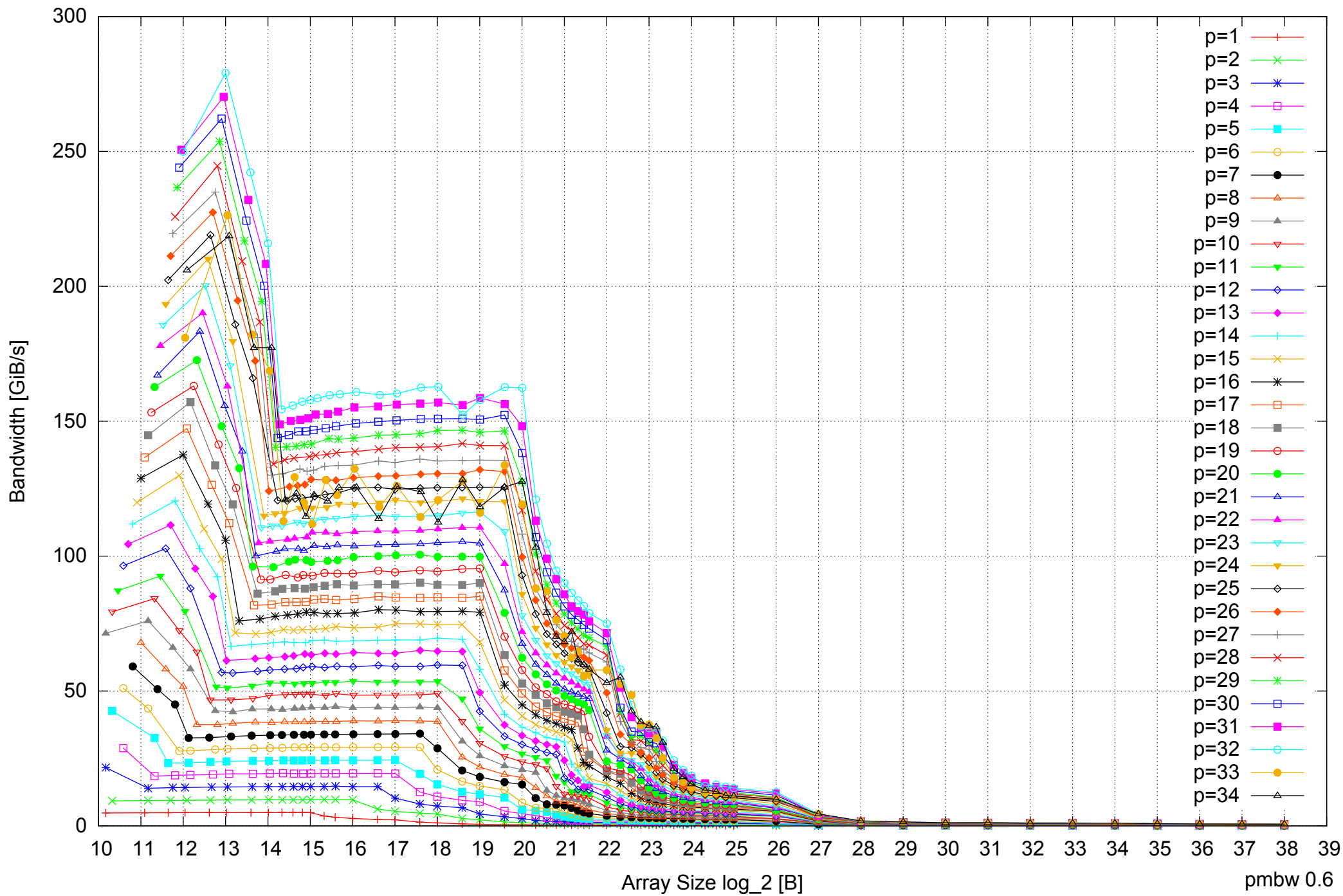




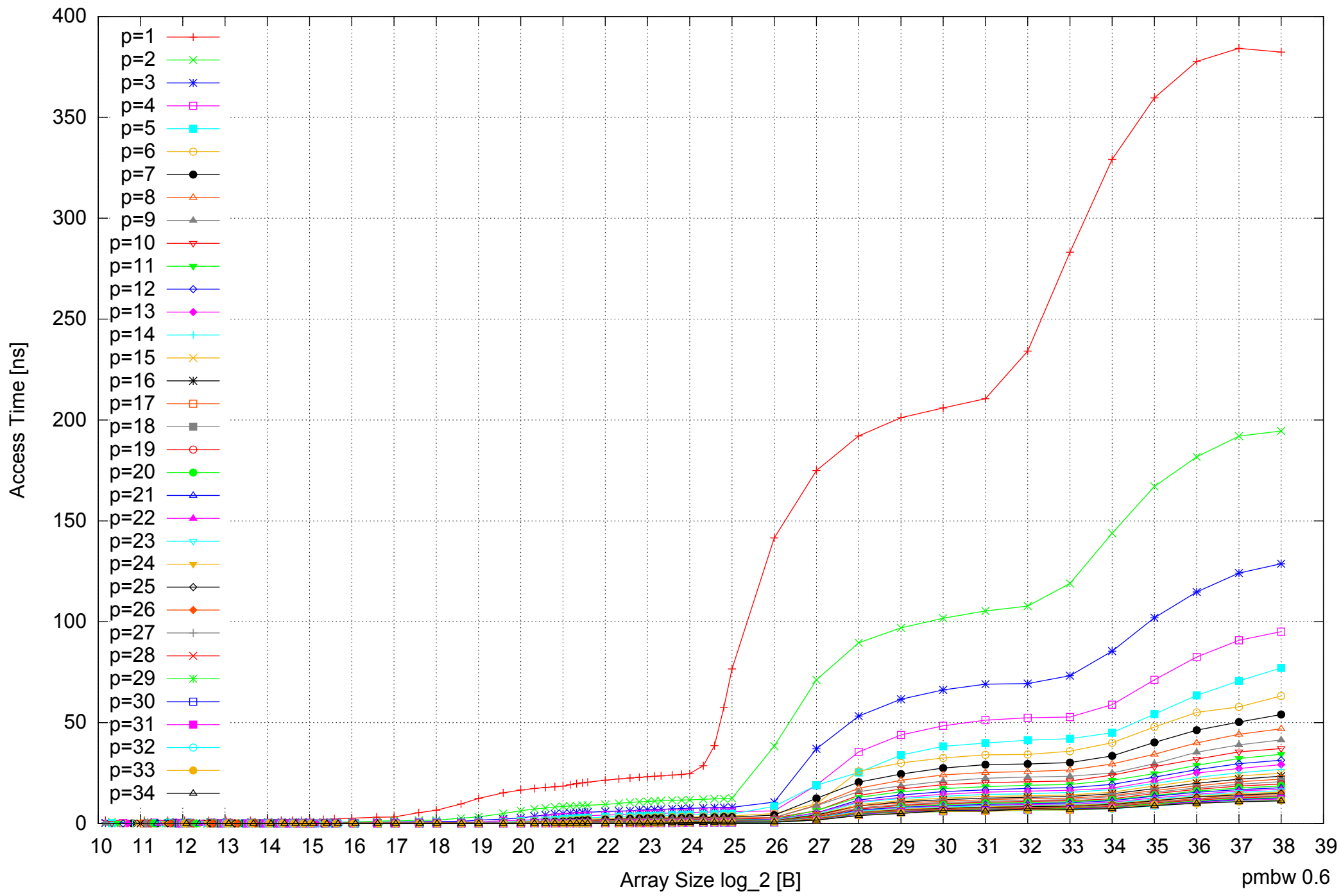
Intel Xeon E7-8837 512GB - Speedup of Memory Bandwidth (enlarged) - ScanRead32PtrUnrollLoop



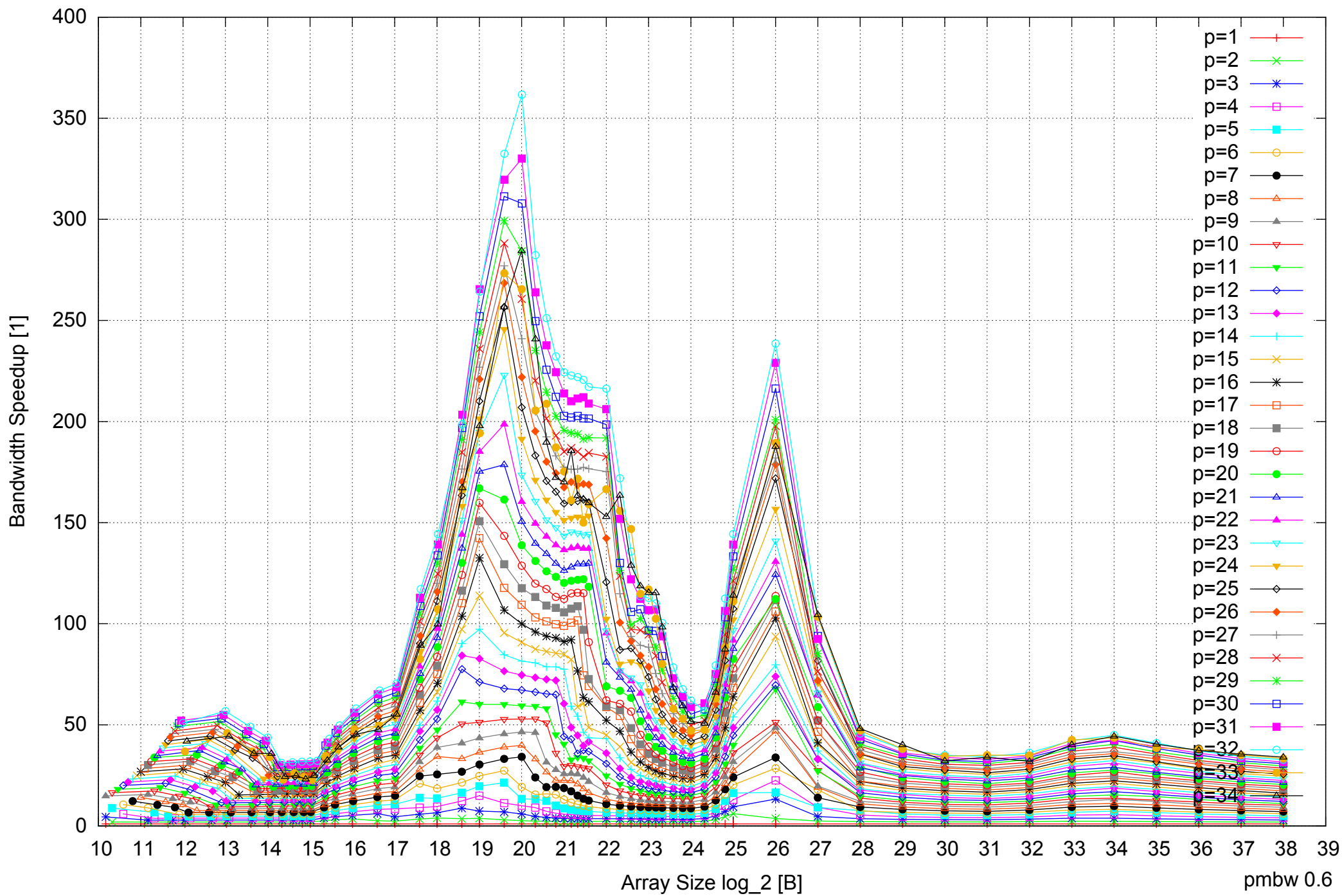
Intel Xeon E7-8837 512GB - Memory Bandwidth - PermRead64SimpleLoop



Intel Xeon E7-8837 512GB - Memory Latency - PermRead64SimpleLoop

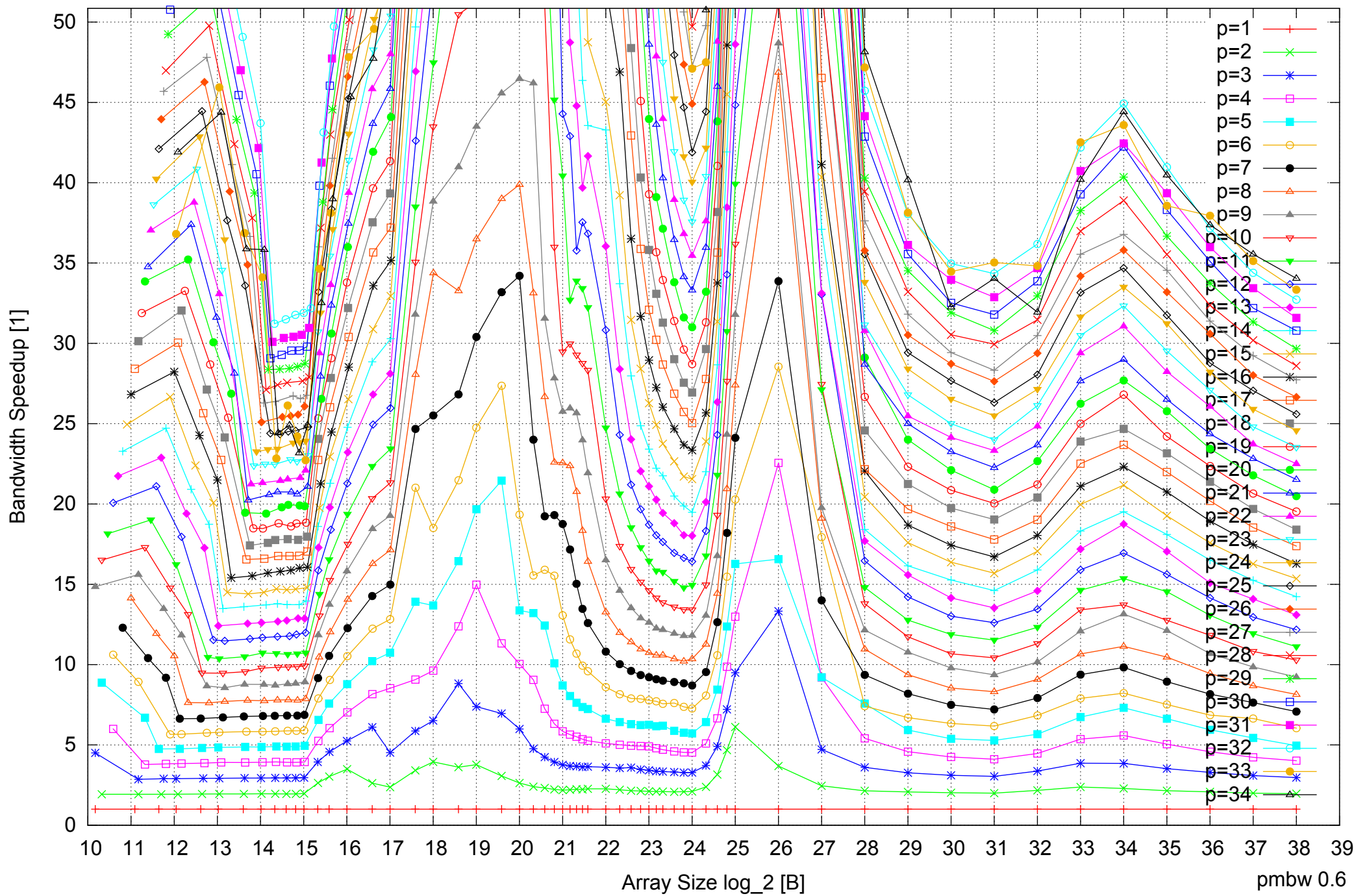


Intel Xeon E7-8837 512GB - Speedup of Memory Bandwidth - PermRead64SimpleLoop



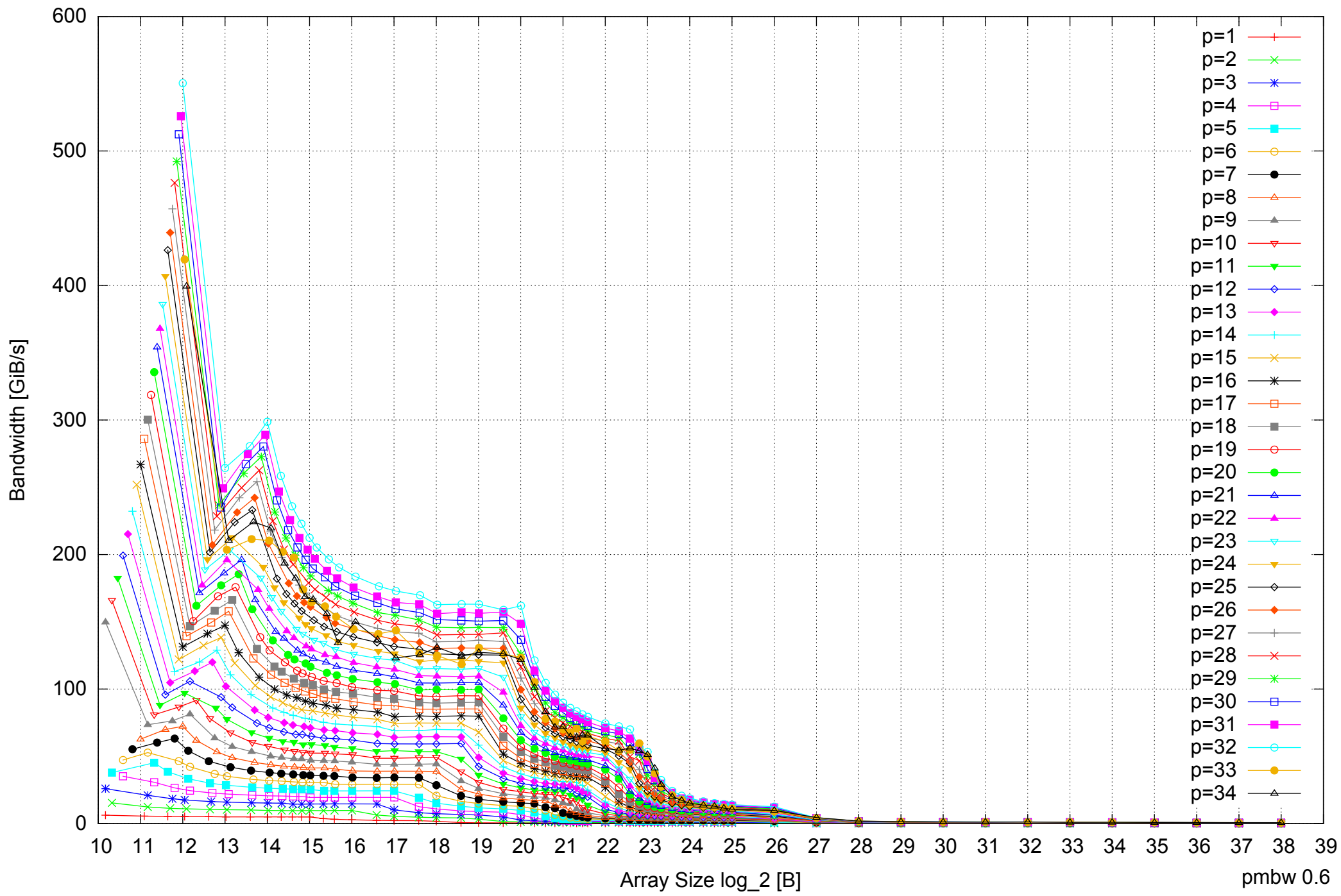


Intel Xeon E7-8837 512GB - Speedup of Memory Bandwidth (enlarged) - PermRead64SimpleLoop

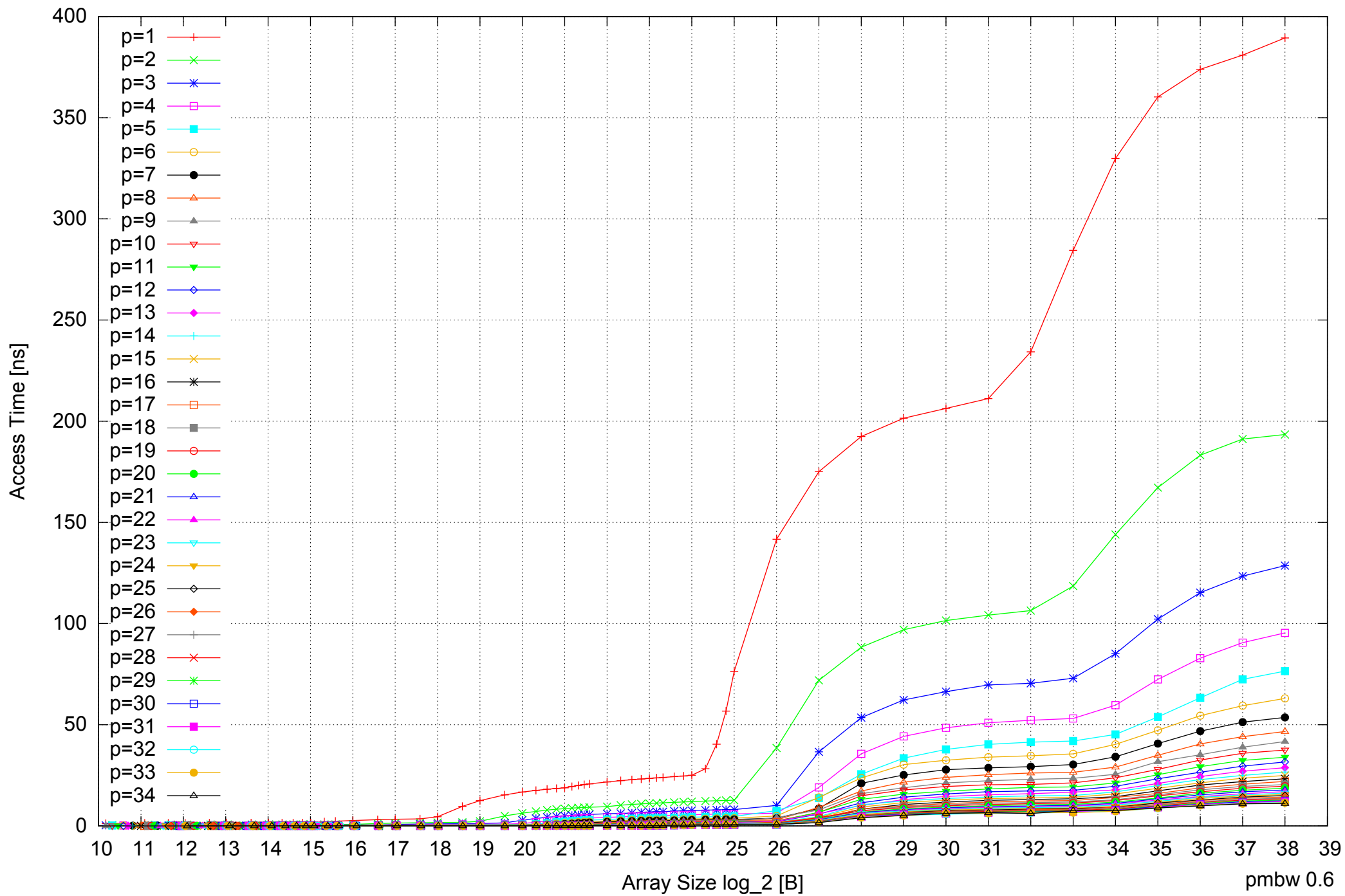




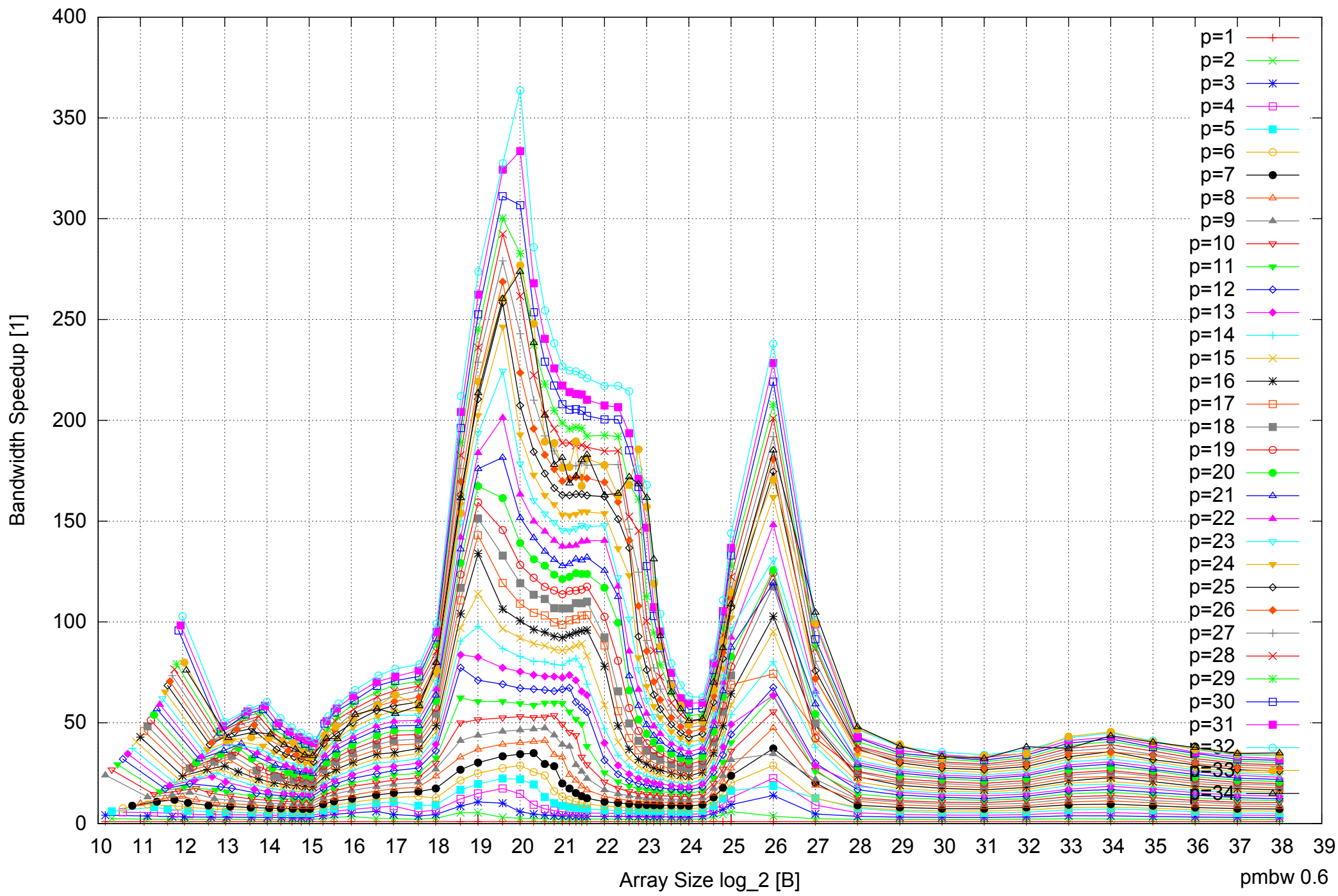
Intel Xeon E7-8837 512GB - Memory Bandwidth - PermRead64UnrollLoop



# Intel Xeon E7-8837 512GB - Memory Latency - PermRead64UnrollLoop



Intel Xeon E7-8837 512GB - Speedup of Memory Bandwidth - PermRead64UnrollLoop



Intel Xeon E7-8837 512GB - Speedup of Memory Bandwidth (enlarged) - PermRead64UnrollLoop

