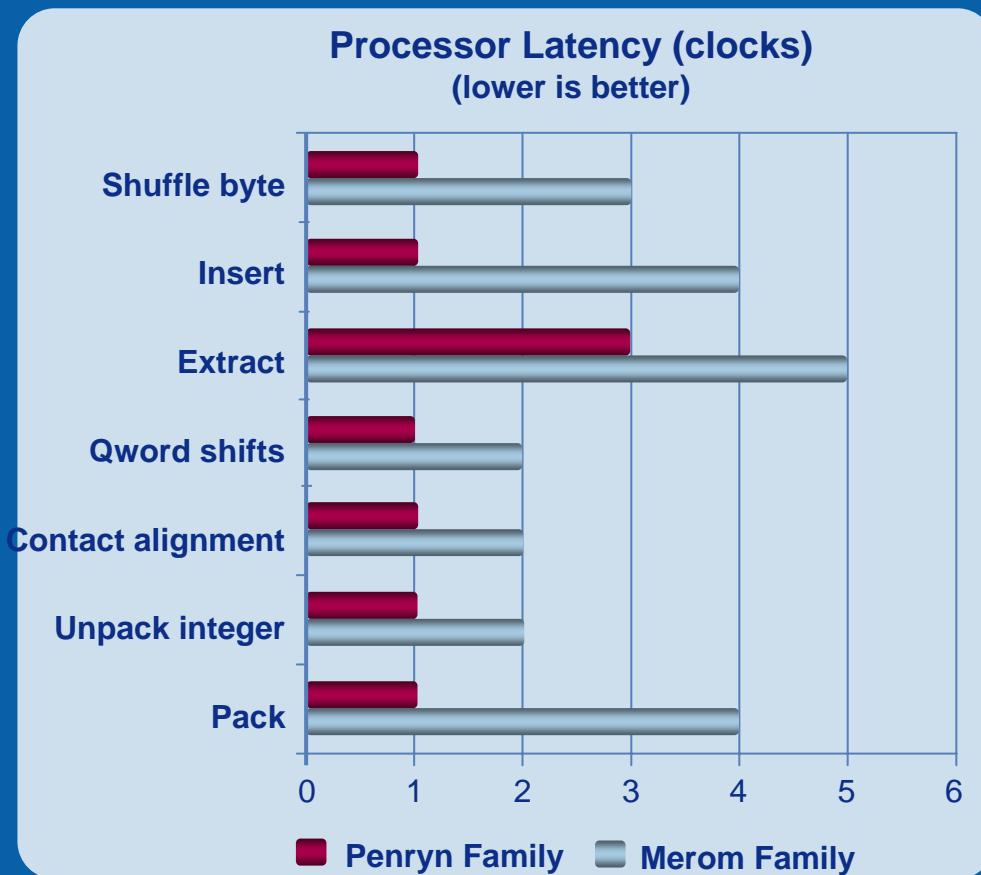


Super Shuffle Engine

- Shuffle operations required for SSE data formatting operations
 - Unpacking
 - Packing
 - Align concatenated sources
 - Wide shifts
 - Insertion and extraction
 - Setup for horizontal arithmetic functions
- Key enabling capability for SSE4
- Penryn super shuffle engine performs 128 bit operations in a single cycle
- No software changes required



2X Faster SSE Shuffle Instruction
Execution