| | Core 2 Intel Core2 Q9550 | Nehalem Intel i7 920 | Shanghai AMD Opteron 2378 |
|---|---|---|---|
| Execution Core | | | |
| Clock [GHz] | 2.83 | 2.67 | 2.4 |
| Throughput | 4 ops | 4 ops | 3 ops |
| Peak FP rate MultAdd | 4 flops/cycle | 4 flops/cycle | 4 flops/cycle |
| L1 Cache | 32 kB | 32 kB | 64 kB |
| Parallelism | 4 banks, dual ported | 4 banks, dual ported | 8 banks, dual ported |
| L2 Cache | 2x6 MB (inclusive) | 4x256 KB | 4x512 KB (exclusive) |
| L3 Cache (shared) | - | 8 MB (inclusive) | 6 MB (exclusive) |
| Main Memory | DDR2-800 | DDR3-1066 | DDR2-800 |
| Channels | 2 | 3 | 2 |
| Memory clock [MHz] | 800 | 1066 | 800 |
| Bytes/ clock | 16 | 24 | 16 |
| Bandwidth [GB/s] | 12,8 | 25,6 | 12,8 |