**References - Equations**

CPU Time = CPU Clock Cycles x Clock Cycle Time

CPU Clock Cycles = Instruction Count x Cycles Per Instruction

CPU Time = Instruction Count x CPI x Clock Cycle

CPI = ∑ ( Pi ⋅ CPIi )

**References - Units**

|  |  |
| --- | --- |
| Time Unit | Frequency Unit |
| 1 | Seconds (s) | 1 | Hertz (Hz) |
| 10-3 | Milliseconds (ms) | 103 | Kilohertz (kHz) |
| 10-6 | Microseconds (µs) | 106 | Megahertz (MHz) |
| 10-9 | Nanoseconds (ns) | 109 | Gigahertz (GHz) |
| 10-12 | Picoseconds (ps) | 1012 | Terahertz (THz) |