

4.1.1.1 Hardware Platform

[Return to Platforms](#)

In [Distributed System](#), each [Network Node](#) in the [Node Network](#) is associated with a [Computer Architecture](#). As a consequence, a requirement of the distributed system is to specifically identify the computer architectures which are permitted

- [Embedded Systems](#)
- [Servers](#)
- [Desktops](#)
- [Handheld Computers](#)
- [Supercomputers](#)

Embedded CPU architectures

[Return to Top](#)

- [arm](#) ARM, sARM architecture (32-bit)ARM64 (64/32-bit)
- [avr](#) Atmel's AVR architecture
- [pic](#) Microchip's PIC architecture
- [msp430](#) Texas Instruments's MSP430 architecture
- [mcs-51](#) Intel's 8051 architecture
- [z80](#) Zilog's Z80 architecture
- [superh](#) Hitachi's SuperH architecture
- Power Architecture (formerly PowerPC)
- EnSilica's eSi-RISC architecture
- Milkymist architecture
- Inmos' Transputer architectures

* Western Design Center's 65816 architecture */

Microcomputer CPU architectures

[Return to Top](#)

- Pre-x86
- x86 Intel's IA-32 architecture, also called x86-32x86-64 with AMD's AMD64 and Intel's Intel 64 version of it
- Motorola's 6800 and 68000 architectures
- MOS Technology's 6502 architecture
- Zilog's Z80 architecture

- Power Architecture (formerly POWER and PowerPC)
- ARM's ARM (32-bit) (previously Advanced RISC Machines ARM, originally Acorn's RISC Machine) and StrongARM / XScale architectures ARM64 (64/32-bit)
- Renesas RX CPU architecture - Combination of RISC and CISC architectures

Workstation/Server CPU Architectures

[Return to Top](#)

- DEC's Alpha architecture
- HP's PA-RISC architecture
- Power Architecture (formerly POWER and PowerPC)
- Intel's Itanium architecture (formerly IA-64)
- MIPS Computer Systems Inc.'s MIPS architecture
- Oracle's (formerly Sun Microsystems's) SPARC architecture

Mini/Mainframe CPU architectures

[Return to Top](#)

- Burroughs large systems architecture (1961-present) currently supported in the Unisys ClearPath/MCP series.
- IBM's System/360, System/370, ESA/390 and z/Architecture (1964-present)
- DEC's PDP-8 architecture, the successor PDP-11 architecture, and its final form, the VAX architecture
- UNIVAC 1100/2200 series architecture (currently supported by Unisys ClearPath IX computers)
- MIL-STD-1750A - the U.S.'s military standard computer
- AP-101 - the space shuttle's computer

Mixed-core CPU architectures

[Return to Top](#)

- IBM's Cell architecture (a general purpose architecture that uses a POWER4 based core and 8 RISC based co-processors)
- CAS's Loongson
- Parallax Propeller, a 160 MIPS multicore microcontroller with eight 32-bit RISC cores.

From:
<https://www.omgwiki.org/dido/> - **DIDO Wiki**

Permanent link:
https://www.omgwiki.org/dido/doku.php?id=dido:public:ra:1.4_req:1_func:platform:hw_arch&rev=1607470739

Last update: **2020/12/08 18:38**

