

Gain programming support for Pascal-based software systems

DXC Perspective

Get the methodology and tools that ensure an effective solution to embedded system software development problems.

Insights

- Your Pascal-based software systems need further development and maintenance.
- Project teams need help.
- DXC Perspective provides support for all software development stages.

Developed by DXC Software Engineering and Products (SWEPE), DXC Perspective is a programming support environment for Pascal-based software systems that provides support for all software development process stages, from initial design to in-service maintenance.

DXC Perspective is used by project teams during development and maintenance of mid/large system software. All software component sources are held on the host machine in a database specially created and maintained by Perspective. A simple command language enables access to the database and source items in a disciplined manner.

Sources can be shared between projects and applications with all uses of each item being recorded in the database. Multiple versions of a given source item can be held and the build configuration of any applications system or component obtained by a simple database query.

Applications software can be downline loaded to the target hardware through a simple communication line and tested using the DXC Perspective host system to inspect, control and debug the target system.

Features

Perspective provides a unique solution to problems associated with developing and maintaining embedded software.

Main features

- The methodology handles complex software design and provides a safe execution environment for sequential programs in a concurrent system.
- A hosted development toolkit supports program development and can be extended to cover the product's full life cycle.
- It provides support for an extended version of ISO/BSI (International Organization for Standardization/ British Standards Institution) Pascal.
- It is based on a modular programming approach.
- Assembly language is supported.
- Source units are controlled in a structured Perspective database.
- Parallel programming, process scheduling and synchronization are supported.
- Session commands and query facilities provide a consistent user interface.
- Interpretive and target debugging facilities are available.
- Components or systems can be frozen.
- Interaction is controlled between database user domains.
- Source items are extracted from the database to an OpenVMS directory on the host system.

- Users can tailor the standard run-time package to meet project requirements.
- MASCOT Kernel provides MASCOT design methodology implementation.
- PROM Formatter produces Intel or Tekhex output suitable for use with a PROM Programmer or ICE box.
- Available on OpenVMS for HPE Integrity Servers (I64), Alpha and VAX platforms (unless indicated) and Alpha/VAX emulated environments.

Software features

Available on OpenVMS for HPE Integrity Servers (I64), Alpha and VAX platforms (unless indicated), and Alpha/VAX emulated environments.

Base Perspective

Base Perspective is central to the product set. It provides a full set of standalone facilities on the OpenVMS host machine. A number of Perspective target products can be added and integrated with the base product. Support is included for the following microprocessors:

- Intel 8086/80186
 - Intel 8086 Perspective
 - Intel 8086 ICE Support for T8540 Perspective (not I64)
- Motorola M68000/M68020
 - M68000 Perspective
 - M68000 ICE Support for T8540 Perspective (not I64)
 - M68020 Perspective (Alpha only)
 - M68020 ICE Support for T8540 Perspective (Alpha only)

Learn more at
www.dxc.technology/SWEP

Target products Intel 8086 Perspective and M68000 Perspective are bundled with Perspective ICE Support for a Tektronix 8540 In Circuit Emulator.

- Zilog Z8001/Z8002
- Perspective Mascot Kernel

The base product is bundled with the Perspective Mascot Kernel.

Documentation features

Perspective products are supplied with a documentation set.

Requirements**Hardware**

DXC Perspective runs on any OpenVMS VAX and Alpha machines. A newer version is also available on I64.

Disk space

Disk space required by Perspective for software, environment and user confidence test as supplied to the customer:

- Base Perspective system software requires about 10K disk blocks.
- Each Perspective target system software requires about 1.5K disk blocks.
- Database space is application dependent, with a recommended minimum 10 MB per database.

About DXC Technology

DXC Technology (DXC: NYSE) is the world's leading independent, end-to-end IT services company, helping clients harness the power of innovation to thrive on change. Created by the merger of CSC and the Enterprise Services business of Hewlett Packard Enterprise, DXC Technology serves nearly 6,000 private and public sector clients across 70 countries. The company's technology independence, global talent and extensive partner network combine to deliver powerful next-generation IT services and solutions. DXC Technology is recognized among the best corporate citizens globally. For more information, visit www.dxc.technology.

Software

Prerequisite software:

- VAX/Alpha — OpenVMS Operating System 6.2 or higher
- I64 — OpenVMS Operating System 8.2 or higher

Distribution medium

CD-ROM

Details**Warranty**

The terms and conditions of supply and warranty are as described in the Perspective license agreement, normally 90 days.

Software licensing

Software is furnished under software license provisions. Licenses for educational institutions are also available.

Support

SWEP continues to meet client requirements by providing an excellent product support service. There are four Perspective maintenance levels: standard, reserved, special and project. Standard service includes a telephone help line for problem-reporting and response service, and product rerelease as necessary to maintain compatibility with upgrades to the host manufacturer's operating system.