

Gain the advantage with CORAL, CORAL+ and Context

With DXC Technology, you get a fast, friendly host computer environment, coupled with the ability to test application software on actual target hardware.

Insights

- Gain a development environment
- Monitor and control test application software
- Control its execution

Get CORAL 66 development environments for host and real-time embedded systems with CORAL, CORAL+ and Context. CORAL provides a host compiler for OpenVMS systems. CORAL+ and Context are cross-compilers for embedded systems.

CORAL+ and Context systems are hosted on OpenVMS and perform editing, compilation and system-building functions. They allow testing of application software by loading it into target hardware through a simple communications line (RS232) and using the respective system debug tool — for example, CORAL+ Debugger or a Context host system — to monitor and control its execution.

Key Features

CORAL compiler for OpenVMS includes the following features:

- BSI CORAL (as defined in BS 5905) as a subset
- Assembler code inserts
- Comprehensive error recovery
- Extensions to standard BSI CORAL
- I/O package enabling basic input/output and numeric data
- Sources compiled to DEC VAX Macro assembler code and Macro-32 Compiler code

- VMS Linker linking
- Direct calls to VMS system service and runtime library routines
- Runtime statement tracing

CORAL+ has the following features:

- Sources compiled directly to produce object code
- Floating data, if hardware supports
- Long integer
- Standalone assembler, if necessary
- Two debugger options — debug and trace
- Memory image file output for PROM Formatter
- Intel or Tekhex output produced suitable for use with a PROM programmer
- Debugger to control and monitor system

Context provides an evolutionary Mascot machine. Local targets are supported as hosted machine systems, while remote targets are supported as bare machine systems. Facilities provided by Context are:

- CORAL 66 — with Additional Features compiler — is capable of processing CORAL and Mascot source text.

- Complete modules can be written in Cross Assembler for inclusion in the object library, and assembler code inserts can be included in any CORAL or Mascot program.
- A single object modules library can be linked into any Mascot specification or CORAL master compilation unit.
- PROM Formatter produces Intel or Tekhex output suitable for use with a PROM programmer.
- Context Kernel provides the required interfaces to support the Mascot design methodology.
- Sources are controlled from within a Context database via the Context session.

Software features

The CORAL compiler runs under the control of OpenVMS. The CORAL 66 source for the compiler can be prepared by any standard editor. The output from the compiler is assembled by the Macro assembler on a VAX or compiled by the Macro compiler on an Alpha and DXC Integrity server. They are then linked by the VMS Linker.

CORAL+ and Context products are targeted at the following microprocessors:

- Intel 8080/8086/8087
- Motorola M68000/M68020
- Zilog Z80/Z8000

The Context product set comprises a Context and Remote Context system. Local Context can be run as a detached process using VMS mailboxes for communication between the target and host system. This can be an invaluable aid to software development.

Documentation features

All CORAL, CORAL+ and Context products are supplied with a full and comprehensive set of documentation.

As part of a maintenance agreement with Software Engineering and Products (SWEP), we provide a technical bulletin containing relevant product news and information.

Requirements

Hardware. The CORAL and CORAL+ compilers run on any OpenVMS configuration. The Context host systems run under an OpenVMS operating system on VAX and Alpha machines.

Disk space. There is no specific memory requirement. However, for Context, the space required for the database is application independent. A minimum allowance of IOMB per database is recommended.

Software. Prerequisite software is OpenVMS Operating System Version 6.2 or higher for VAX and Alpha systems, and OpenVMS Version 8.2-1 for DXC Integrity Servers.

Distribution medium. CD-ROM

More details

Warranty. The terms and conditions of supply and warranty are as described in the CORAL, CORAL+ and Context license agreement, normally 90 days.

Support. SWEP continues to meet clients' requirements by providing excellent product support service. There are four maintenance levels for CORAL, CORAL+ and Context — standard, reserved, special and project. Standard service includes a telephone help line for problem reporting and response service, and product re-release as necessary to maintain compatibility with upgrades to the host manufacturer's operating system.

Software licensing. The software is furnished under the provisions of a software license. Licenses for educational institutions are available.

Learn more at
www.dxc.technology/SWEP

About DXC Technology

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