

# Software Product Description

PRODUCT NAME: Quintus Prolog™ RISC ULTRIX, Version 2.5

SPD 33.56.00

## DESCRIPTION

Quintus Prolog Development System is a programming language used for both traditional and knowledge-based applications. It is suited for applications where there are rapid changes in requirements, memory efficiency is needed, multiple problem solutions may exist, or interfacing to external/multiple databases is required. Quintus Prolog is used for applications that require logical inference (rules), database queries, pattern matching, formal specification, language translation and integration with existing programs or data.

Software developers are the primary end users. Quintus Prolog's modular system helps programmers work in teams by allowing each programmer to work individually on one part of an application.

Software developers will use the Quintus Prolog Development System in prototyping, developing, upgrading and maintaining software applications which focus on database, database interface, expert system, language translation and user interface requirements. The software is used across all industries in software development.

## Features

All data areas are expanded and contracted automatically when necessary (stack shifter). Memory management features include tail recursion optimization, a compacting garbage collector, and reclamation of retracted clauses. First-argument indexing is provided as both compiled and dynamic code. A full-screen editor permits incremental execution and redefinition of Quintus Prolog code within an editor window and is supported in the split-screen development environment.

Other features include interfaces to all the standard VMS/ULTRIX commonly used languages including C, FORTRAN, COBOL and PASCAL, and interprocess communication (IPC) with separately running programs. The Quintus Prolog Library provides over 1700 off-the-shelf routines that can be integrated into Quintus Prolog programs.

## HARDWARE REQUIREMENTS

RISC-Based Systems

*Processors Supported:*

DECstation: DECstation 2100, DECstation 3100, DECstation 3100s, DECstation 5000 Model 200, DECstation 5000 Model 200CX, DECstation 5000 Model 200PX

DECsystem: DECsystem 3100, DECsystem 500 Model 200, DECsystem 5400, DECsystem 5810, DECsystem 5820, DECsystem 5830, DECsystem 5840

Refer to the Quintus Prolog VMS and VAX/ULTRIX Software Product Description (SPD 29.48.xx) for more information on this product.

*Disk Space Requirements*

Disk space required for installation: 11 MB

Disk space required for use (permanent): 20.0 MB

These counts refer to the disk space required on the system disk. The sizes are approximate; actual sizes may vary depending on the user's system environment, configuration and software options.

## SOFTWARE REQUIREMENTS

ULTRIX Operating System V3.1 - V4.0

## GROWTH CONSIDERATIONS

The minimum hardware/software requirements for any future version of this product may be different from the requirements for the current version.

## DISTRIBUTION MEDIA

Tape: 9-track 1600 BPI Magtape, TK50 Streaming Tape

**ORDERING INFORMATION**

Software License:           QL-YUXA\*-AA  
                                  QL-YUYA\*-AA  
Software Media             QA-YUXAA-\*\*  
and Documentation:        QA-YUYAA-\*\*

\* Denotes variant fields. For additional information on available licenses, services and media, refer to the appropriate price book.

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None

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