

The Prentice Bulletin

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THE UNIVERSITY
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Special Issue: Mainframe Software Summary

Much of the software distributed over our three mainframes is listed below. However, if a wanted package is not listed, do not assume it is not available, telephone the Program Library on 365 4075 to enquire.

Digital Vax 6000-510 VMS

name: UQVAX operating system: VMS

UQVAX is used for academic teaching and research and runs the Digital VAX/VMS operating system. Software available on the Vax 6000-510 VAX/VMS system, includes:

Wordprocessing:

VAX Document – Document publishing (as used for Digital manuals)

TeX – Text formatting system for a variety of printers

LaTeX – Text processing using TeX and pre-defined styles (macros)

RUNOFF – Text formatting for monospaced printers

SPELL – Orthography aid

Various translation packages to prepare documents for printing:
DVIPS, TEXTPS, HPGL2PS, LABEL2PS, MACPS, etc

Editors:

TPU – Text Processing Utility; basis for the editors, EVE, LSEDIT, VI, and VTEDIT

EVE – Extensible Vax Editor; general screen based text editor

LSEDIT – Language Sensitive Editor; program and Vax Document source

VI – A TPU based implementation of the Unix editor, vi

VTEDIT – A TPU extension with many features

EDT – General purpose text editor

TECO – Character oriented editor available on all Digital systems

QEDIT – Locally written editor compatible with UQKL10's EDIT

SED – Screen oriented editor compatible with UQKL10's SED

Text Search and Retrieval:

SEARCH – Display records from files based on textual content

File and Directory Management Utilities:

DM, FIND, SD, SWING

Statistics:

SPSSX – Statistical Package for Social Sciences

NAG – Numerical Algorithms Group subroutine library

Database:

RDB – Relational database, accessed by RDO, SQL, Rally, Teamdata or Datatrieve

RDO – Interactive interface to Rdb

SQL – Interactive or program interface to relational databases

RALLY – Menu-driven application development system; uses 4GL or 3GL interface to relational databases

TEAMDATA – Data management including spreadsheet and graphic display

Datatrieve – Relational database management system

ORACLE – Oracle database system

DMU – Dictionary Manipulation Utility to access CDD/PLUS objects

CDO – Common Dictionary Operator also used with CDD/PLUS

Forms Utilities:

DECforms – Interactive tool for integrating text and simple graphics

TDMS – Terminal Data Management System; interactive forms creation

FMS – Forms Management System; interactive forms creation

Communications Utilities:

Kermit – Terminal emulation and file transfer package (PC↔mainframe)

Mail – Electronic mail facility

News – Bulletin board system

Pathworks – File storage, printing, and mail services (PC↔mainframe)

Phone – Electronic telephone facility

Computer Aided Learning:

CML – Computer Managed Learning

DAL – Digital Authoring Language

EDTCAI – EDT editor instruction course

Programming Languages:

ADA, BASIC, C, COBOL, FORTRAN, LISP, MACRO-32, MODULA-2, PASCAL

Maths and graphic library routines may be called from any programming language.

Maths:

NAG – Numerical Algorithms Group subroutine library

Graphics:

GKS – Graphical subroutine library

PLOT-79 – Graphical subroutine library, some free standing programs

CalF77 – Graphical subroutine library

SUN 470

name: **BROLGA** *operating system:* **Unix**

BROLGA is used for academic teaching and research and runs the SunOS operating system version 4.1.1. SunOS is based on the UNIX BSD 4.3 operating system. Software available on the SUN Unix system, BROLGA.

Languages:

C – several compilers: cc, gcc
C++ – compiler: CC
FORTRAN – compiler: f77
MODULA-2 – compiler: m2c
PASCAL – compiler: pc
COMMON LISP – compiler: kcl

Database:

jinx – simple database

Maths:

MATLAB – an interactive, matrix-based system for scientific and engineering calculation (soon)

Window System:

X11R5 – a portable, network-transparent window system from MIT

xterm – vt100 terminal emulator for X
twm – Tab Window Manager for the X Window System
tvtwm – Tom's Virtual Tab Window Manager for the X Window System

OpenWindows package – Sun's network-based application environment. It includes:
 xnews – window server
 olwm – OPEN LOOK window manager for OpenWindows
 DeskSet – integrated personal productivity tools.
 XView – an OPEN LOOK user interface toolkit
 OLIT – OPEN LOOK Intrinsic Toolkit
Motif – window manager

Graphics:

SunPHIGS – a hierarchical, interactive system for the definition, modification and display of 3-D and 2-D data

fpm – Fuzzy pixmap manipulation (Sun, GIF, IFF, HAM, PCX, PBM, FBM, PostScript, rasters, bitmaps, pixmaps)

pbm – functions to support portable bitmap programs
gnuplot – an interactive plotting program
PGPLOT – a Fortran subroutine package for drawing scientific graphs

hpgl2ps – HPGL (Hewlett Packard Graphic Language) to PostScript converter
label2ps – convert labels to PostScript

Wordprocessing:

troff – the most popular Unix text formatting program,
TeX – Text formatting system for a variety of printers
LaTeX – Text processing using TeX and pre-defined styles (macros)
WordPerfect – text editor/formatter
TopText – command-driven document preparation system

Text Search and Retrieval:

NUDIST – program for qualitative data analysis

Artificial Neural Networks:

bps – multilayer back error propagation simulator
mlhn – Hopfield-style network simulator
PlaNet – a window based generalized simulator (soon)

IBM 3090

name: **UQVM** *operating system:* **VM/CMS**

UQVM is used for academic teaching and research and runs the VM/CMS operating system.

Languages:

APL2 – APL
ASSEMBLER H – IBM Machine Language
BASIC/VM – BASIC
CSP/AE, CSP/AD – Cross System Product—4GL
VSCOBOL2 – COBOL
LISP/VM – List Processing
VSPASCAL – PASCAL
VSFORTRAN, VSFORTRAN UTILITIES – FORTRAN and subroutines

Statistics:

GLIM – Interactive Statistical Analysis Program
IMSL – International Mathematical Statistical Library
SAS – Statistical Analysis System
SPSS – Statistical Package for Social Sciences

Database:

QMF – Query Management Facility
RXSQL REXX – Interpreter interface to SQL
SQL/DS – SQL Database System

Maths:

ACRITH – High Accuracy Arithmetic Subroutine Library
ESSL – Engineering & Scientific Subroutine Library
SMFF – Script Mathematical Formula Formatter
IMSL – International Mathematical Statistical Library
NAG – Numerical Algorithms Group
IFPS – International Financial Planning System
LISREL – Linear Structural Relationships Analysis

Graphics:

GDDM/VM – Graphical Data Display Manager
GDDM/GKS – GDDM/Graphics Kernel System
GDDM/PGF – GDDM/Presentation Graphics Facility

Word-Processing:

DCF – Document Composition Facility
GML – Generalized Markup Language
TeX – Text formatting system for a variety of printers

Simulation:

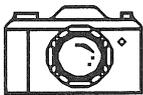
GPSS – General Purpose Simulation System
SIMSCRIPT – Advanced Modelling and Simulation Language
NETWORK – Flow Simulation

Other software running on the systems include communications software, and utilities for sorting, comparing, editing, text searching, and other common file functions. If your special package does not appear on this list, call the Program Library on 365 4075.

*Tired of the Christmas Rush?
Annoyed at enormous crowds in the shopping centres?
Why not do your Christmas shopping on campus?*

The Technology Shop is conveniently located on the campus, allowing you to do your Christmas shopping at any time during the day.

No need to leave the campus; no need to lose your carpark!



Don't forget to stock up on **film** before that big Christmas dinner. We can also **process your films** when you return to work with **24 hour turnaround**.

How do you keep the kids busy over the long Christmas school holidays? Have you looked at our range of **computer games** yet? Apart from the more popular games, we have a range of games that **we can order in** to meet your needs.

The current selection includes:

- **BattleChess II**
- **Falcon 3.0**
- **Altered Beast**

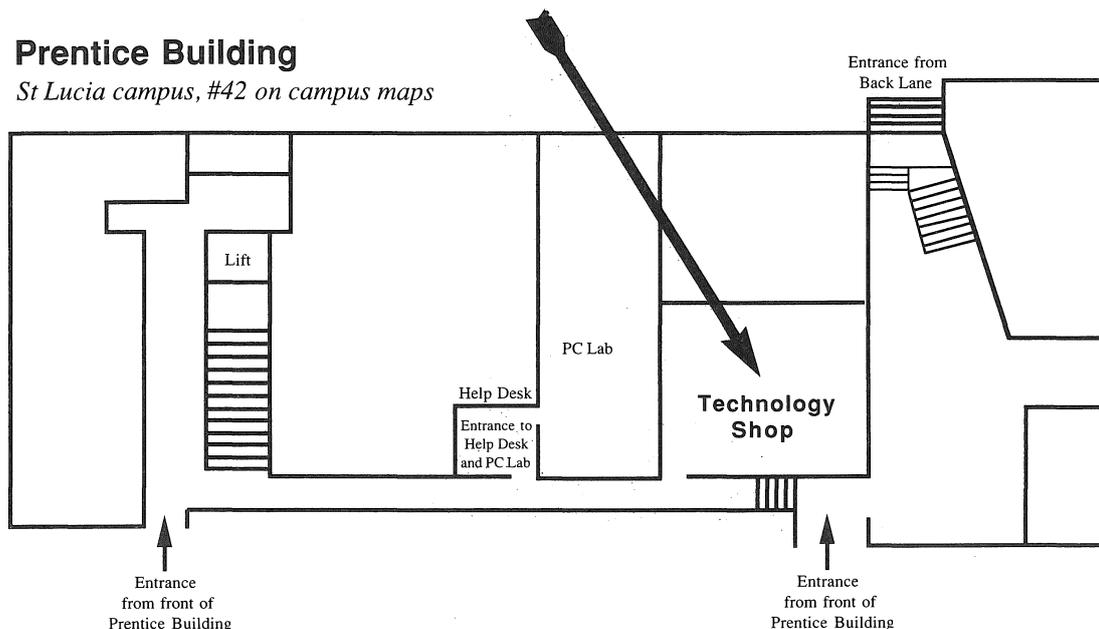
*plus more!
(including games for Macs)*



Where are we?

Prentice Building

St Lucia campus, #42 on campus maps



Technology Shop, Prentice Centre, The University of Queensland

365 3943

Not everyone wants to play games. We also stock a wide range of serious software including wordprocessors, databases, spreadsheets, and programming languages.

Some of our prices are:

WordPerfect V5.1.....	\$170.00	TypeQuick	\$70.00
Microsoft Excel for Windows.....	\$225.00	<i>teaches you to type</i>	
Microsoft Word for Macintosh	\$145.00	VirusBuster.....	\$79.95
Microsoft Word	\$155.00	<i>Australia's #1 virus scanning software</i>	
Borland C++	\$235.00		
Borland Turbo Pascal for Windows	\$150.00		



Haven't got a computer system to use?

We have great prices on IBM PCs and as an Apple Consortium member, can sell Apple systems at very competitive rates.

Come in and talk to our consultants about your Christmas needs.

We also stock PC and Apple laptop computers. Just perfect for the busy executive or academic. *Why not treat yourself this Christmas?*

Call in! Come and see the range of computer hardware and software, plus our audio visual products available to you at special education institution prices.

We also hire out Macintosh computers, IBM PC compatibles, photographic and video equipment.

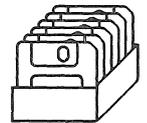


Floppy Disks



3.5" High Density (1.44Mb) Box of 10	\$30.00
5.25" High Density (1.2Mb) Box of 10	\$17.30

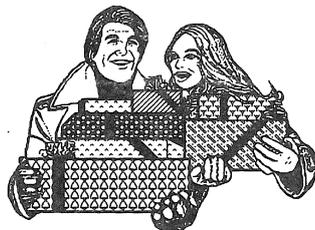
Diskette Storage Boxes



For 3.5" disks Holds 40 disks.....	\$10.50
For 5.25" disks Holds 50 disks.....	\$10.50

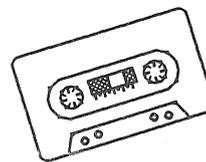
*Don't know what to get mum or dad?
Need some help?
Why not get some extra blank video cassettes?
Unbeatable value for the quality:*

\$5.75 for 30 minutes
\$6.00 for 60 minutes
\$6.50 for 120 minutes
\$6.65 for 180 minutes
\$9.25 for 240 minutes



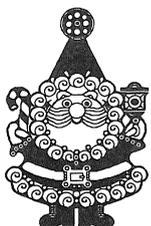
Modem

Bit Blitzer XM124E 2400 bps **\$358**



Haven't got a video?
We also sell high quality audio cassettes.

Maxell SLN C60	\$1.60
Maxell SLN C90	\$3.50
UR C120	\$3.50



Limited Edition Clocks! \$25

- *mounted on old computer boards*
- *just the gift for the techno-wizard in your house*
- *each clock is unique, certified and numbered*

