



Open Pascal Retargetable translator that reads OpenVMS Pascal

Open Pascal reads OpenVMS Pascal and generates portable C source code. Open Pascal automates the migration of OpenVMS Pascal applications to open systems

Open Pascal is a source code translator for programs written in the OpenVMS Pascal language. It is both a translator and a converter designed for:

- > Porting OpenVMS Pascal applications from OpenVMS to Unix-based platforms
- > Converting OpenVMS Pascal programs into C programs. Open Pascal reads OpenVMS Pascal code and generates consistent and maintainable C code. Open Pascal includes its own runtime system.

Open Pascal automatically creates the proper linkage to our VMS-runtime library product, Open LIBR8.

All device and file names are mapped, so no changes are required in the OpenVMS Pascal source.

Open LIBR8 includes support for RMS, SMG, Sort/Merge and the majority of SYS\$ and LIB\$ system services.

Features

- > All OpenVMS Pascal reserved identifiers and predeclared routines supported
- > Supports nested procedures
- > Preserves comments; produces understandable and concise C code
- > Extensive user configuration options

Benefits

- > Translates 99% of all OpenVMS Pascal extensions
- > Preserves investments in software and personnel
- > Fully consistent and portable C code
- > Supports VMS runtime routines including RMS, QIO, SMG, logical name handling and indexed files

"We developed our applications in-house to handle the unique needs of our diverse client base. However, further scalability was not going to be possible without a change of platform.

Migration with Advanced offered us a fast, cost-effective and low-risk solution."

Rob Hussey >
Head of Solutions Delivery >
Mercer Outsourcing

Open Pascal

Pre-declared routines

DD_INTERLOCKED	MAX
ADDRESS	MIN
ARGUMENT	OCT
ARGUMENT_LIST_LENGTH	PAD
BITNEXT	QUAD
BYTE_OFFSET	READV
CLEAR_INTERLOCKED	README_FILE
CLOCK	REVERT_TIME
CREATE_DICTIONARY	SET_INTERLOCKED
DATE	SIZE
DEC	SINGL
DELETE_FILE	UAND
ESTABLISH	UDEC
EXPO	UNOT
FIND_FIRST_BIT_CLEAR	UOR
FIND_FIRST_BIT_SET	UPPER
FIND_MEMBER	UROUND
FIND_NONMEMBER	UTRUNC
HEX	UXOR
IADDRESS	WRITEEV
INT	XOR
LOWER	

Symbols & Labels

Open Pascal supports identifiers up to 256 characters long. Decimal, hexadecimal and control characters. Open Pascal allows numeric and string labels.

Program Structure

Open Pascal supports the use of VARS, CONSTS, TYPES, LABELS, PROCEDURES & FUNCTIONS in any order. Forward declarations are supported. Nested procedures and functions are decomposed with symbol scope automatically resolved. Statements Open Pascal supports the full range of OpenVMS Pascal.

Statements

Assignments, procedure and function calls, goto, compound, if, case, repeat, while and for, and with.

More information

w oneadvanced.com
t +44(0) 8451 605 555
e hello@oneadvanced.com

Ditton Park, Riding Court Road, Datchet, SL3 9LL

Advanced Computer Software Group Limited is a company registered in England and Wales under company number 05965280, whose registered office is Ditton Park, Riding Court Road, Datchet, SL3 9LL. A full list of its trading subsidiaries is available at www.oneadvanced.com/legal-privacy.

Attribute Syntax

All OpenVMS Pascal attributes are recognised and translated, if appropriate, to equivalent attributes in C. Open Pascal does allow these attributes to be recognised but not translated, thereby eliminating OpenVMS-specific code.

ALIGNED	LOCAL
ASYNCHRONOUS	LONG
AT NOG_FLOATING	NOOPTIMIZE
AUTOMATIC	OCTA
BIT	OVERLAID
BYTE	POS
CHECK	PSECT
CLASS_AP	QUAD
CLASS_NCA	READONLY
CLASS_S	REFERENCE
COMMON	STATIC
ENVIRONMENT	TRUNCATE
G_FLOATING	UNALIGNED
GLOBAL	UNBOUND
HIDDEN	UNSAFE
IDENT	VALUE
IMMEDIATE	VOLATILE
INHERIT	WEAK_EXTRNL
INITIALIZE	WEAK_GLBL
KEY	WORD
LIST	WRITEONLY

"We chose Advanced for this complex and demanding migration as it had both the technical expertise to convert our OpenVMS applications to Windows, and also its well established migration methodology."

Martin Heaton >
Control Systems
Development Manager >
Springfields Fuels