



Open ACCLIM8 Automates the conversion of applications

Open ACCLIM8 is an expert system for migrating OpenVMS Fortran applications to open systems

Our Open ACCLIM8 product automates the conversion of applications using HP Fortran for OpenVMS to Unix, Linux or Windows.

It removes OpenVMS compiler dependencies, while preserving the full functionality of the original program.

Open ACCLIM8 also automatically creates the proper linkage to the OpenVMS runtime library product, Open LIBR8.

The application is then compiled using the native Fortran compiler. Open ACCLIM8 retains the look & feel of the original source code.

The porting process completely eliminates the long and error-prone process of rewriting the system.

Features

- > Handles over 100 OpenVMS compiler extensions
- > Automatically sets up system service calls to use Open LIBR8
- > After processing by Open ACCLIM8, applications may be compiled and run using a native Fortran compiler and runtime on Unix, Linux or Windows

Benefits

- > Automates software porting, and handles troublesome incompatibilities between the OpenVMS Fortran and Unix, Linux or Windows compilers
- > Simplifies use of Open LIBR8 from Fortran applications
- > Applications are processed by the native compiler optimiser
- > Preserves the look & feel of the original source code
- > Expert system eliminates trial and error

Technical Specification

Compilation Control Statements

- > INCLUDE...LIST|NOLIST

Data Types

- > Octal and hexadecimal

Expressions

- > Non-integer expressions in dimensions and substring definitions
- > Character constant in numeric context

"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 ACCLIM8

- > Logical expressions in numeric context
- > Integer expressions in logical context consecutive operators "+" or "-" .XOR. operator
- > Aggregates in expressions

Specification Statements

- > Radix-50 numbers in DATA initialisation
- > Initialisation of a character variable with numeric values
- > Initialisation of a name common in more than one program unit
- > Equivalent array references with a single Subscript
- > PARAMETER statement may involve CHAR, IAND, IEOR, ISHFT, LGE, LFT, LLE, MIN, MAX, ABS, MOD, ICHAR, NINT, DIM, DPROD, CMPLS, CONJG, IMAG
- > PARAMETER statement without enclosing parentheses
- > STRUCTURE, RECORD, UNION, MAP
- > %FILL
- > VIRTUAL

Source Statement Elements

- > Alternate RETURN specified as '&|b|'
- > %LOC
- > Omitted actual arguments

Control Statements

- > Optional label list in assigned GO TO

I/O Statements

- > Non-integer unit specifier
- > Non-integer record number in D/A references

- > The '66 form of record specifier
- > Aggregates in the I/O list
- > NML specifier in READ/WRITE
- > ACCEPT and TYPE
- > ENCODE and DECODE

I/O Formatting

- > Variable format expression
- > Default edit descriptor lengths from data types
- > Q input character count edit descriptor
- > Optional comma following nXand and nP edit descriptors
- > Character and Hollerith constant input edit descriptor

Auxillary I/O Statements

- > DEFINE FILE
- > FIND
- > HP Fortran for OpenVMS specific statement specifiers in the CLOSE, INQUIRE and OPEN statements

Intrinsics and System Service Routines

- > DATE, IDATE, SECNDS, TIME, RAN, EXIT
- > Unique OpenVMS intrinsic functions

"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

More information

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