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************************************************************************
* Absoft Pro Fortran 2012 for Linux
* Release Notes
*
* Version 11.5.0
*
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--- New in 11.5 ----

1) Absoft Window Environment (AWE), Qt based application framework for Fortran
2) AVX Instruction set support
3) Fx3 Debugger Matrix Display Mode for 2 dimensional arrays
4) AbsoftTools IDE plugin architecture for third party libraries and tools
5) Fortran 2003 ACOS, ASIN, and ATAN generics accept complex arguments
6) Fortran 2003 COSH, SINH, and TANH generics accept complex arguments
7) Fortran 2003 MOVE_ALLOC statement
8) Fortran 2003 GET_COMMAND, GET_COMMAND_ARGUMENT and COMMAND_ARGUMENT_COUNT
9) Fortran 2003 FLUSH statement
10) Fortran 2003 GET_ENVIRONMENT_VARIABLE
11) Fortran 2003 IS_IOSTAT_END and IS_IOSTAT_EOR
12) Fortran 2003 NEW_LINE

--- Installation Notes ---

The file INSTALL_PROBLEMS.txt provides solutions to getting Absoft
Pro Fortran running on specific Linux distributions.

Build Platform

The 11.5 release was built on:
Open Suse 10.2 with gcc version 4.1.2 and glibc-2.5-34.13

The 11.5  release has been validated on:

Open Suse 10.2
Ubuntu 11.04
Fedora Core 14
Redhat Enterprise Linux 6.1

---  Implementation Notes ---

1) VAL intrinsics and CHARACTER arguments.

When the compiler encounters a CHARACTER variable or expression as the
argument to a VAL intrinsic, it passes the address of the storage for the
string. This may not be the desired behavior when interfacing with a C or
C++ routine. If a C/C++ routine expects C/C++ char value, the appropriate
way to pass a CHARACTER*1 FORTRAN variable (or a single character inside a
larger FORTRAN CHARACTER expression) is to use the ICHAR function along with
the VAL intrinsic. The following example illustrates this:

    PROGRAM MAIN
    CHARACTER*1 fortran_char_variable
    fortran_char_variable = 'A'
    CALL c_routine(VAL(ICHAR(fortran_char_variable)))
    END

--- NOTE ON UPGRADES FROM 10.0 AND EARLIER  ---

The default external name decoration was changed in Absoft Fortran 95
10.1 to enhance interoperability with other compilers and third party
libraries. Users upgrading from releases prior to 10.1 should be aware
of the following information.
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The new name decoration is fold to lower case and append a single trailing underscore to function and subroutine names. This name decoration is the default for all three compiler drivers: f77, f90, and f95.

The following option sets can be used to match the behavior of previous Absoft compilers

Code compiled by previous Absoft f77 compiler drivers:
-YEXT_NAMES=ASIS -YEXT_SFX=""

Code compiled by previous Absoft f90 and f95 compiler drivers:
-YEXT_NAMES=UCS -YEXT_SFX=""

--- Contacting Absoft Technical Support ---

To report issues you encounter while using this product, please contact Absoft Technical Support.

Absoft Technical Support engineers are available Monday-Friday, 9 a.m. - 3 p.m. EST at 248-853-0050 or via support@absoft.com.

Absoft offers support by telephone on a best efforts basis. This service is for resolving problems related to operation of products purchased from Absoft.

Absoft offers support by email on a best efforts basis. This service is for resolving problems related to operation of products purchased from Absoft.

Absoft Technical Support is not a consultation service nor can we respond to questions we determine are outside the scope of resolving issues with products purchased from Absoft.