

Supported Fortran Language Extensions: Intel/Linux

Language Feature	Absoft	g95	gfortran	Intel	Lahey	NAG	Pathscale	PGI	Oracle
Fortran 95	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
TR15581 (Allocatable dummy arguments, derived type components etc.)	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Fortran 2003 Support ²	Partial	Partial	Partial	Yes	No	Yes	No	Yes	Yes
Fortran 2008 Support ²	No	No	Partial	Partial	No	Partial	No	No	No
OpenMP	Yes	No	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Tabbed source form	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Symbolic names with \$	Yes	Option	Option	Yes	Yes	Yes	Yes	Yes	Yes
Hollerith data	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
DOUBLE COMPLEX	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Varying length for named COMMON	Yes	Yes	Yes	Yes	Yes	No	Yes	Yes	Yes
Mix numeric and character in COMMON and EQUIVALENCE	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
INTEGER*n	1,2,4,8	1,2,4,8	1,2,4,8,16	1,2,4,8	1,2,4,8	1,2,4,8	1,2,4,8	1,2,4,8	1,2,4,8
LOGICAL*n	1,2,4,8	1,2,4,8	1,2,4,8,16	1,2,4,8	1,2,4,8	1,2,4,8	1,2,4,8	1,2,4,8	1,2,4,8
REAL*n	4,8,16	4,8,10	4,8,10,16	4,8,16	4,8,16	4,8,16	4,8	4,8	4,8,16
Language Feature	Absoft	g95	gfortran	Intel	Lahey	NAG	Pathscale	PGI	Oracle
VAX style debug (D) lines	Yes	Yes	Yes	Yes	No ¹	No	Yes	Yes	Yes
C style string constants (e.g. 'hello \n world')	Option	Option	Option	Option	No	No	No	Option	Option
VAX style STRUCTURE, RECORD, UNION etc.	Yes	No	No	Yes	Yes	No	No	Yes	Yes
Initialization in TYPE statements	Yes	No	Yes	Yes	Yes	No	Yes	Yes	Yes
ENCODE and DECODE	Yes	No	No	Yes	Yes	No	Yes	Yes	Yes
variable format expressions using <>	Yes	No	No	Yes	Yes	No	No	No	Yes

\ edit descriptor	Yes	Yes	No	Yes	Yes	No	Yes	No	No
Q edit descriptor	Yes	No	No	Yes	Yes	No	Yes	Yes	Yes
\$ edit descriptor	Yes	Yes	Yes	Yes	Yes	No	Yes	Yes	Yes
in line assembler	No	No	No	No	No	No	No	No	Partial
CRAY Pointers	Yes	No	Yes	Yes	Yes	No	Yes	Yes	Yes
OPEN for “Transparent” or stream I/O (e.g. FORM='BINARY')	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Language Feature	Absoft	g95	gfortran	Intel	Lahey	NAG	Pathscale	PGI	Oracle
Get Command Line	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Get Environment Variable	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Invoke External command	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Get Files in Directory	No	No	No	Yes	No	Yes	Yes	No	No
Get File Size, Date, Attributes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
VAX style system intrinsics (SECNDS etc.)	Yes	Yes	Yes	Yes	Yes	No	Yes	Yes	Yes
Unix style system library (getenv, etime etc.)	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Posix style library (pxfputc, pxfopen etc.)	No	No	No	Yes	No	No	Yes	No	No

Notes	
1	D lines treated as comments
2	See here (http://www.fortranplus.co.uk/resources/fortran_2003_2008_compiler_support.pdf) for a detailed feature by feature breakdown compiled by Ian Chivers and Jane Sleightholme

Return to Fortran Compiler Comparisons homepage (<http://www.fortran.uk/fortran-compiler-comparisons-2015>)

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