

		Compiler		
		Portability	Speed	Heterogeneous
		GNU (gfortran)	Intel (ifort)	NVIDIA (nvfortran)
Debug	Debug information	-Wall -g	-g	-g or -gopt
	Gprof profiling	-pg	-pg	-pg
	Bounds check	-fbounds-check or -fcheck=bounds or all	-check bounds or -check all	-C or -Mbounds
	Check for unintended de-referencing of NULL pointers	-fcheck=pointer or all -fcheck-pointer-bounds	-check pointers or -check all	-Mchkptr
	Check the stack for available space upon entry	-fstack-check or -fcheck=mem	-check stack -fp-stack-check	-Mchkstk
	Trap floating-point exceptions	-ffpe-trap=invalid,zero,overflow	-fpe0 -ftrapuv	-Ktrap=fp (inv,divz,ovf)
	IEEE 754 floating-point standard	-fprotect-parens -fno-unsafe-math-optimizations -fno-unsafe-loop-optimizations -fno-rounding-math -fsignaling-nans	-fp-model=strict	-Kieee
	No optimizations	-O0	-O0	-O0
	Backtrace on errors	-fbacktrace	-traceback	-traceback
Prod	Optimization	-O2	-O2	-O2
	IEEE 754 floating-point standard	-fprotect-parens -fno-unsafe-math-optimizations -frounding-math -fsignaling-nans	-fp-model=strict	-Kieee
	optimization report	-fopt-info-all	-qopt-report=2 or 3	-Minfo=all
	Inline all functions that were extracted	-finline or -finline-functions or -fwhole-program	-finline-functions -ip -ipo	-Minline -Mextract or -Mautoinline
	generate position-independent code	-fpic	-fpic	-fpic/-fpic/-KPIC/-Kpic
	Enable loop fusion	-ftree-loop-optimize	Included in O2	-Mvect=fuse
	Enable loop tiling	-ftree-loop-distribution	Included in O2	-Mvect=tile
	Align large objects on cache-line boundaries	-falign-commons	-qopt-mem-layout-trans= 2	-Mcache_align
	Enable loop unrolling	-funroll-loops	-unroll or -funroll-loops	-Munroll
	Sets the target architecture	-mtune={arch} -march={arch} -m{arch}	-ax{arch} or -x{arch} or -m{arch}	-tp={arch}