Parallelization

The table below summarizes OpenMP and parallelization capabilities and options in popular compilers. The versions of the OpenMP specification referenced in the table can be obtained by following these links:

- OpenMP 3.0, May 2008
- OpenMP 2.5, May 2005
- OpenMP for C/C++ 2.0, May 2002
- OpenMP for C/C++ 1.0, October 1998

				OpenMP and Parallelization Support				
COMPILER	Released	OpenMP Version	OpenMP Option	Load Balancing	Auto-Parallelization Option			
HP aCC 6.20	Sep 2008	2.5	+Oopenmp	?	+Oautopar (C/C++)			
HP aCC 6.15	Sep 2007	2.5	+Oopenmp	No	+Oautopar (C only)			
HP aCC 3.80	Sep 2007	2.0 (http://docs.hp.com/en/11920/HP%20aC++%20Online%20Programmer's%20Guide/parallelprog.htm)	+Oopenmp (http://docs.hp.com/en/11920/HP%20aC++%20Online%20Programmer's%20Guide/options.htm#opt+Onoopenmp)	?	+Oautopar (http://docs.hp.com/en/11920/HP%20aC++%20Online%20Programmer's%20Guide/options.htm#opt+Onoautopar), +Oparallel (http://docs.hp.com/en/11920/HP%20aC++%20Online%20Programmer's%20Guide/options.htm#opt+Onoparallel)			
HP aCC 3.70	Jun 2006	2.0	+Oopenmp	?	+Oautopar, +Oparallel			
HP aCC 3.33	Dec 2001	N/A	N/A	N/A	+Oautopar, +Oparallel			
HP aCC 3.13	Dec 1999	N/A	N/A	N/A	+Oautopar, +Oparallel			
Borland C++ 6		N/A	N/A	N/A	N/A			
gcc 4.4		3.0	`-openmp`	OpenMP	`-ftree-parallelize-loops=n`			
gcc 4.3	Mar 2008	2.5	-fopenmp	OpenMP	-ftree-parallelize-loops=n			
gcc 4.2	May 2007	2.5	-fopenmp	?	N/A			
gcc 4.1	Mar 2006	N/A	N/A	N/A	N/A			
gcc 4.0	Apr 2005	N/A	N/A	N/A	N/A			
IBM XLC/C++ 10.1	Jul 2008	3.0	-qsmp=omp	?	-qsmp=auto			
IBM XLC/C++ 9.0			`-qsmp=omp`	OpenMP	`-qsmp=auto`			
IBM XLC/C++ 8.0	2006	2.5	`-qsmp=omp`	OpenMP	`-qsmp=auto`			
IBM XLC/C++ 7.0	2004	2.0	`-qsmp=omp`	OpenMP	`-qsmp=auto`			
IBM VisualAge C++ 6.0	Jul 2002	2.0	`-qsmp=omp`	OpenMP	`-qsmp=auto`			
IBM VisualAge C++ 5.0	Mar 2000	1.0	`-qsmp=omp`	?	?			
Intel C++ 11.0	Fall 2008	3.0	`-openmp`	OpenMP	`-parallel`			

Intel C++ 10.1	Nov 2007	2.5	-openmp	OpenMP	-parallel
Intel C++ 10.0	Jun 2007	2.5	`-openmp`	OpenMP	`-parallel`
Intel C++ 9.0	Jun 2005	2.5	`-openmp`	OpenMP	`-parallel`
Intel C++ 8.1					
Intel C++ 8.0	Dec 2003	2.0	`-openmp`	?	`-parallel`
Intel C++ 7.1					
Intel C++ 7.0	Nov 2002	2.0	`-openmp`	?	`-parallel`
Intel C++ 6.0	Apr 2002	1.0	`-openmp`	?	`-parallel`
Portland Group C++ 7.2	2008	2.5			
SGI MIPSpro 7.4.1		2.0	`-mp`	?	-apo
Sun Studio 12	Jun 2007	2.5	-xopenmp	OpenMP	-xautopar (SPARC)
Sun Studio 11	Nov 2005	2.5	-xopenmp	OpenMP	-xautopar (SPARC)
Sun Studio 10	Jan 2005	2.0	-xopenmp	OpenMP	-xautopar (SPARC)
Sun Studio 9	Jul 2004	2.0	-xopenmp	OpenMP	-xautopar
Sun Studio 8	May 2003			?	
Visual Studio 2008	Nov 2007	2.0	/openmp	?	N/A
Visual Studio 2005	Oct 2005	2.0	/openmp	?	N/A
Visual Studio 2003	Apr 2003	N/A	N/A	N/A	N/A
Visual Studio .NET	Feb 2002	N/A	N/A	N/A	N/A
Visual Studio 6.0	Jun 1998	N/A	N/A	N/A	N/A