

## Advanced Parallelizing Compiler (APC) Overview

## **APC Technology Group**



## **Benchmark Programs and Effective Technologies**

Application	Description	Effective

technologies				
tomcatv	Vetorized mesh generation	Spec95	Hierarchical	
Parallelization	, Cache Optimization			
swim	Shallow water equations	Spec95/2000	Hierarchical	
Parallelization	, Cache Optimization			
su2cor	Monte-Carlo method	Spec95	Hierarchical	
Parallelization				
hydro2d	Navier Stokes equations	Spec95	Hierarchical	
Parallelization	Cache Optimization			
mgrid	3d potential field	Spec95/2000/NPB2.3	Hierarchical	
<b>Parallelization</b>				
applu	Partial differential equations	Spec95/2000/NPB2.3	Affine Partitioning	
turb3d	Turbulence modeling	Spec95	Hierarchical	
Parallelization	, Interprocedural Parallelizatio	n		
wupwise	Quantum chromodynamics	Spec2000	Interprocedural	
Parallelization				
EP	Embarrassingly parallel	NPB2.3	Interprocedural	
Parallelization				
CG	Conjugate gradient	NPB2.3	DSM optimization	
SP	Pentadiagonal solver	NPB2.3	Medium grain	
Parallelization	-		-	