Concurrent Programming Models for the Cell Broadband Engine

Cilk

The Cell is powerful, but challenging to program
Cilk can provide a smooth transition older C codes
Four keyword extension: cilk, spawn, inlet, and abort
Source to source compiler leverages native compilers
Work stealing scheduler is provably efficient
Great for elegant, efficient recursive algorithms

The Cell Broadband Engine

A scalar processor + array of vector processors
A small, heterogeneous distributed system