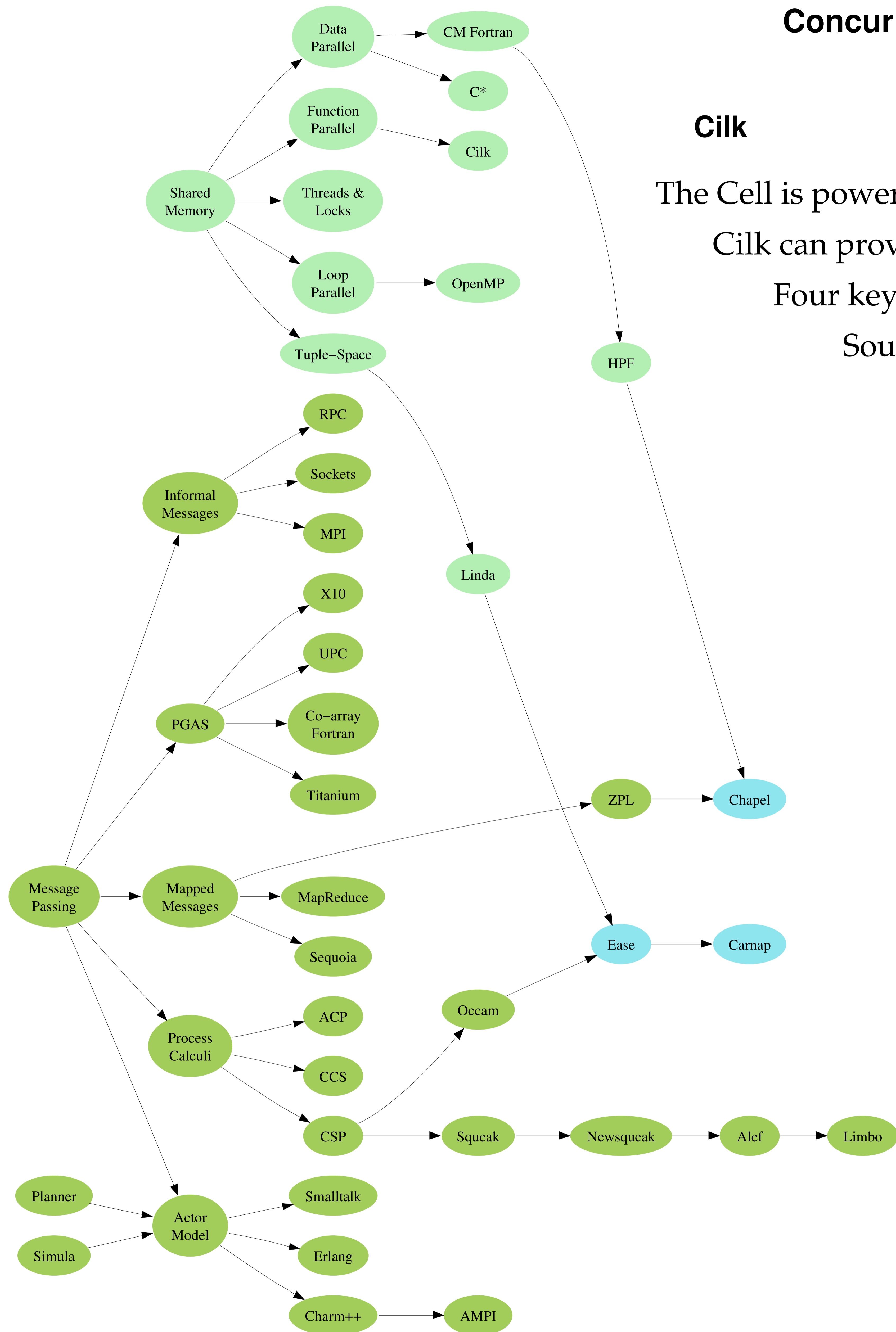


Concurrent Programming Models for the Cell Broadband Engine



Cilk

The Cell is powerful, but challenging to program

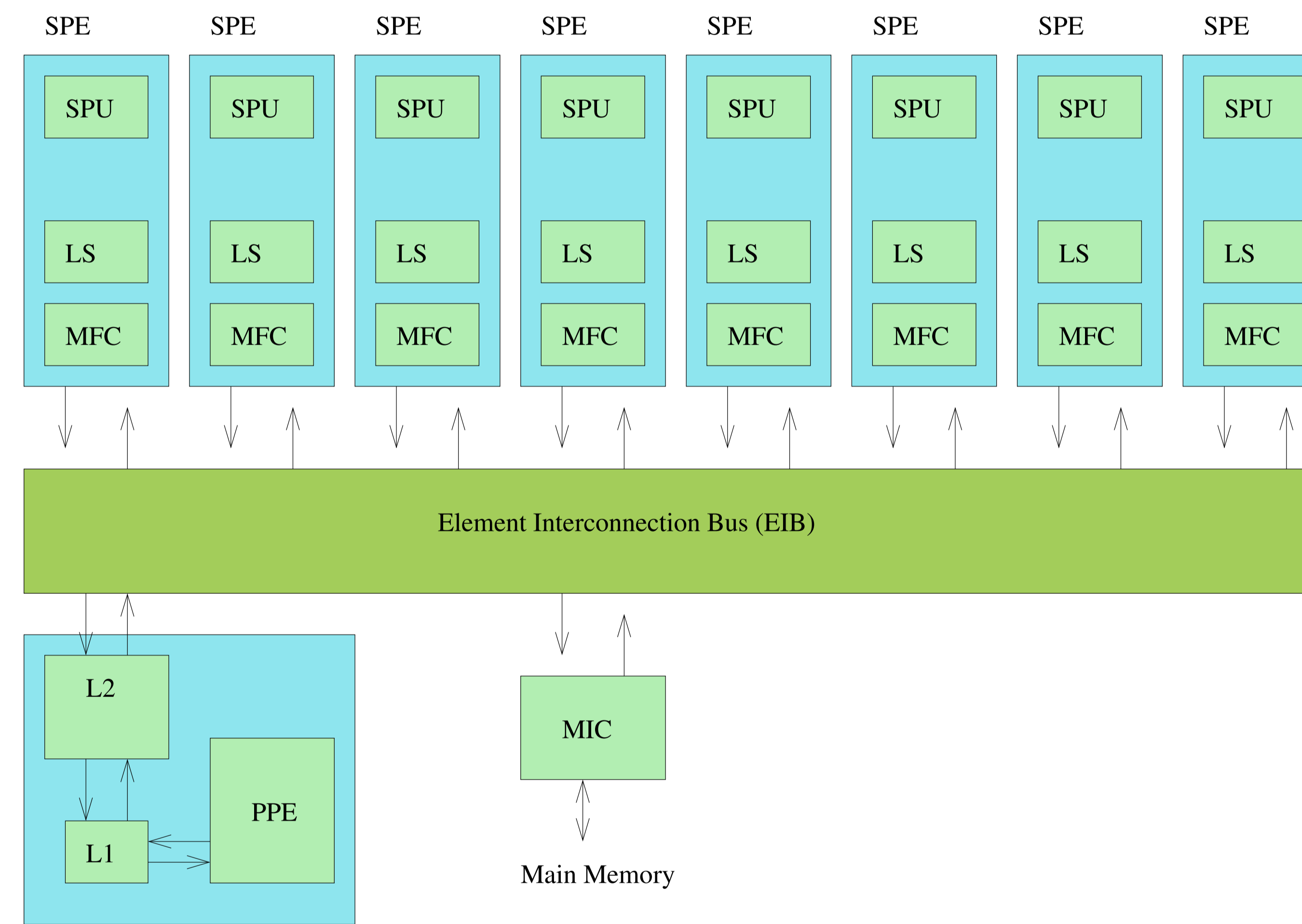
Cilk can provide a smooth transition older C codes

Four keyword extension: cilk, spawn, inlet, and abort

Source to source compiler leverages native compilers

Work stealing scheduler is provably efficient

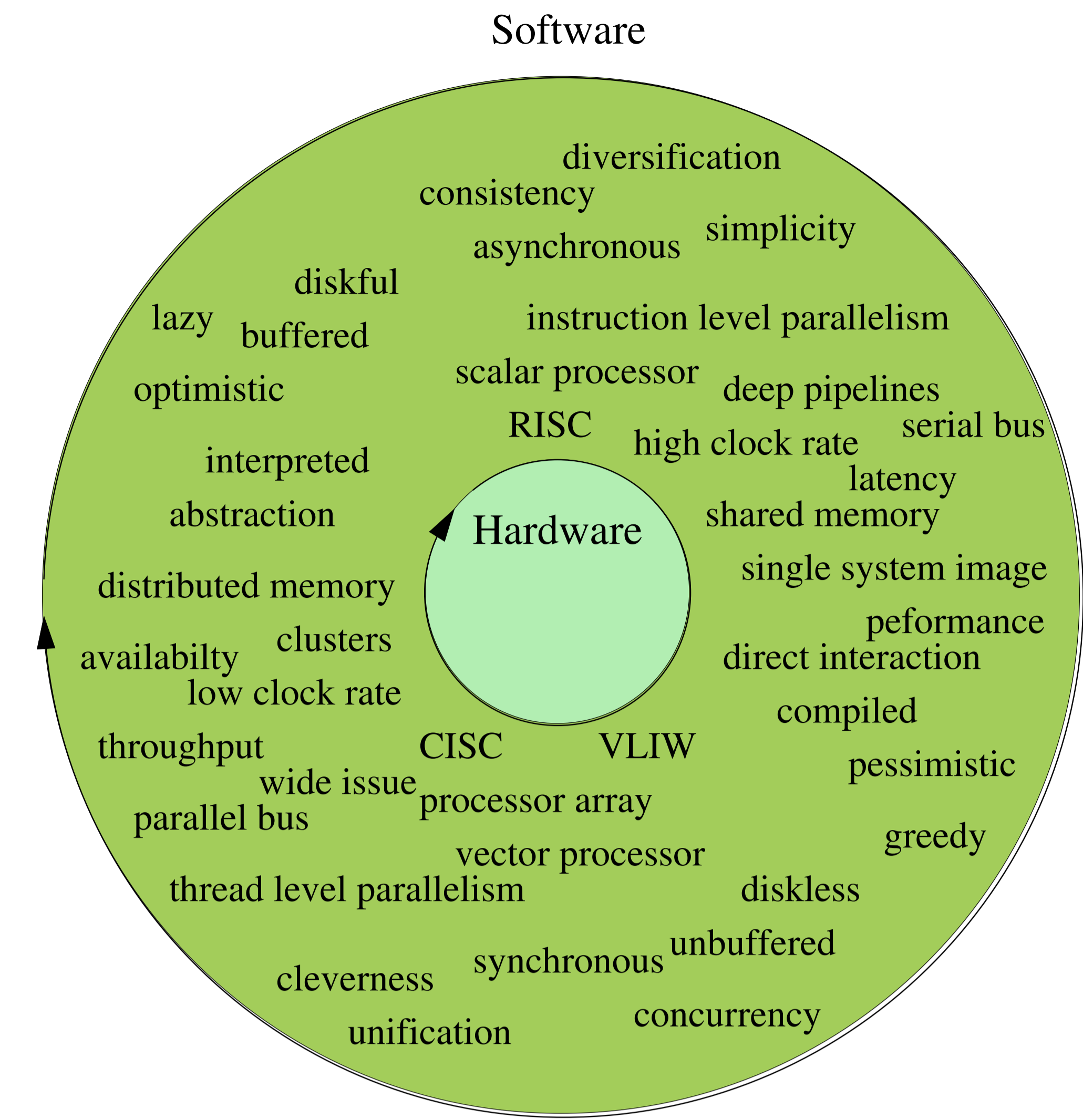
Great for elegant, efficient recursive algorithms



The Cell Broadband Engine

A scalar processor + array of vector processors

A small, heterogeneous distributed system



The Hardware and Software Cycle

Everything old is new again

Software lags hardware

