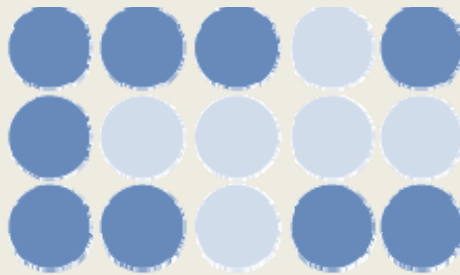


HPEC 2010

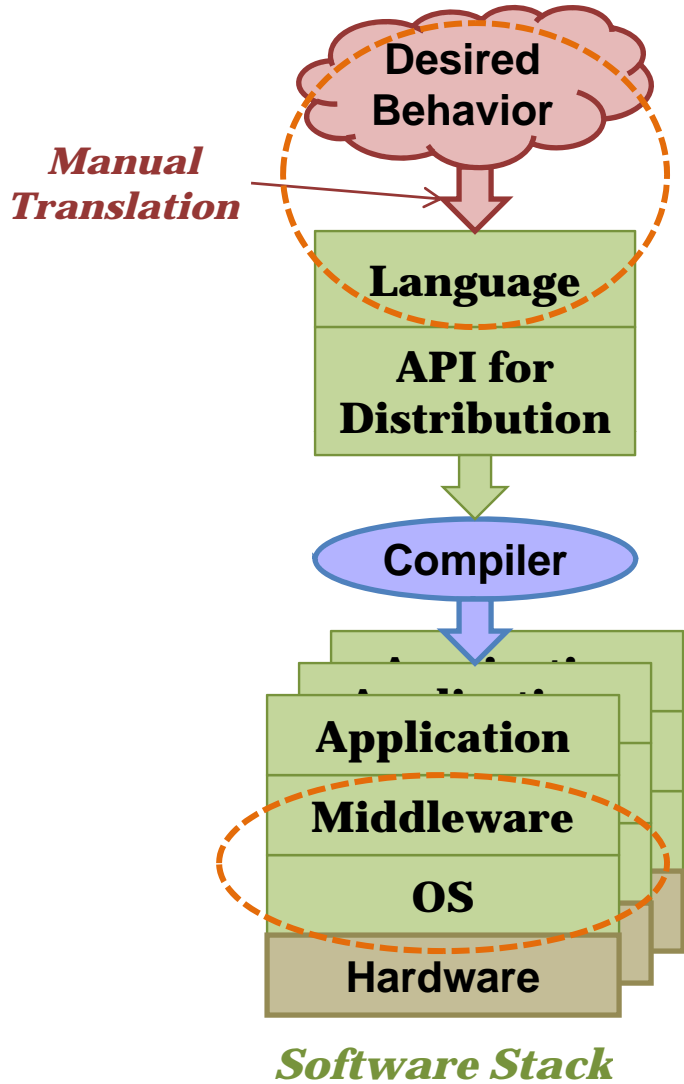
Automated Software Cache Management



Gedae

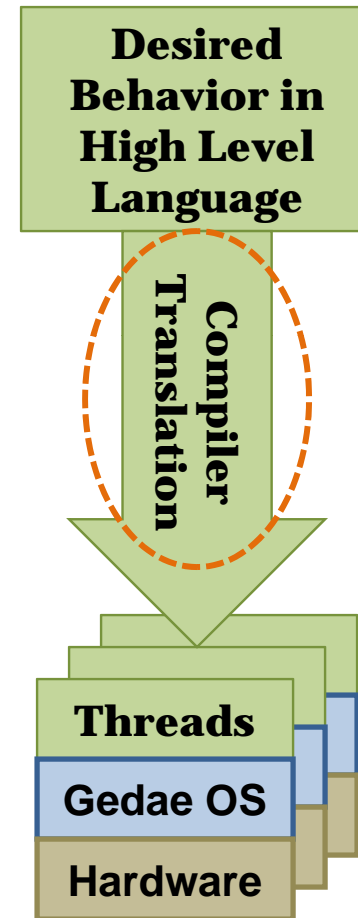
WWW.GEDAE.COM

Standard Approach



Gedae Approach

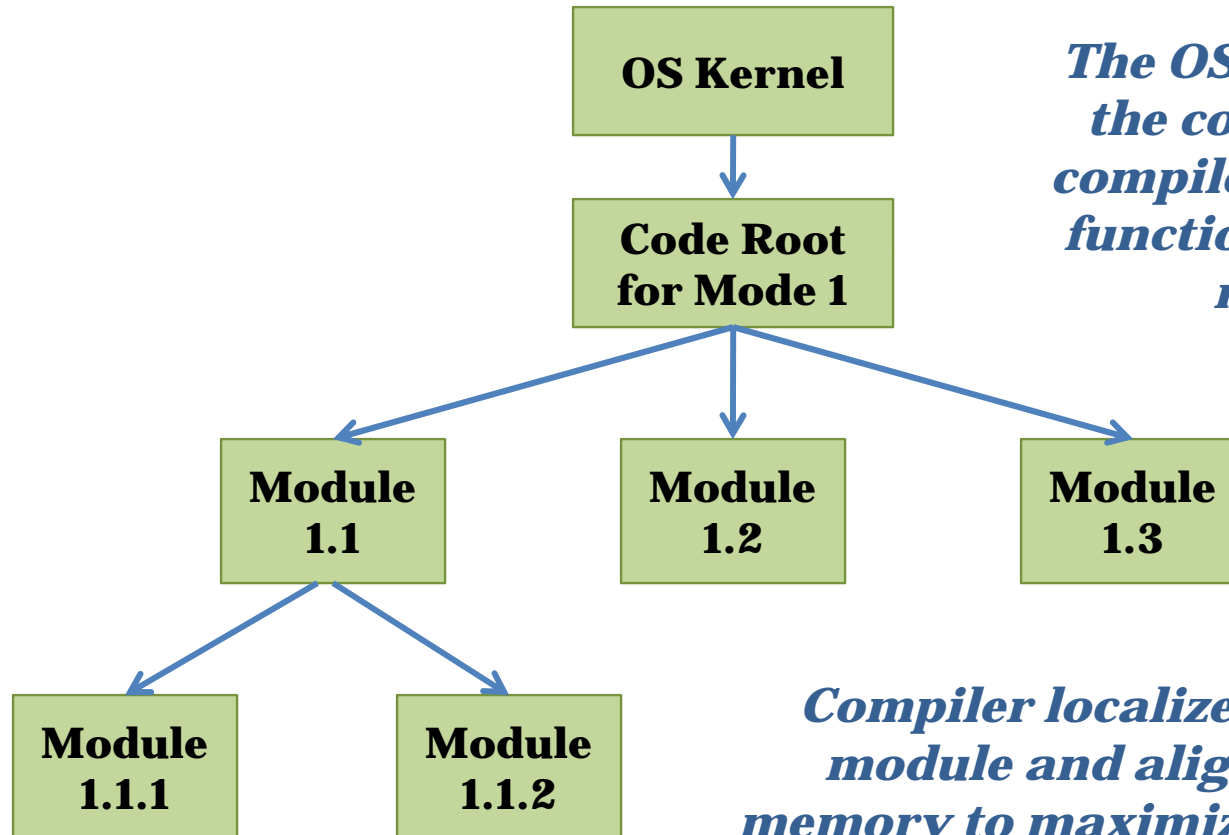
Gedae moves the complexity of hand coding, distribution of computation and resource management (e.g. load balancing) to the compiler.



Compiler Automation

Compiler Creates a Code Tree

2



The OS kernel loads the code root. The compiler has built in functions to load as needed.

Compiler localizes each code module and aligns them in memory to maximize the transfer speed from system memory.

Each SPE Manages Its Own Code Tree

3

The PPE controls the mode of operation. Once set it informs each SPE of the code tree it is to run and each SPE then runs independently maximizing concurrency.

