Remember ...

Overall Goal

Exploit **Web** technologies for **course-grain distributed computing** by integrating them with a careful mix of **interpreted** and **compiled** environments for HPC programming languages.

WebHPF & PCRC Relationship

WebHPF = PCRC + an attractive front-end + low latency Web compatible message passing systems

PCRC.

A Three Layer Architecture for WebHPL

- Layer 1:
  - Define computation and communication primitives, based on Web standards.
  - Construct a World-Wide Virtual Machine(WWVM) for heterogeneous and distributed high performance computing.
- Layer 2:
  - more advanced client paradigms
  - interchange of different data formats and script languages.
  - HPFCL - for coarse grained control-parallel HPF modules.
- Layer 3:
  - User level programming and problem solving environments(PSE)
  - Example PSEs: PCRC, Global Arrays

Tasks Schedule

Current PCRC Tasks:

- Boston – NPAC software integration.
- A multi-language PCRC runtime library:
  - A combination of HPF/F90D Fortran and C runtime libraries.
  - incremental updates towards a more advanced PCRC library in C.