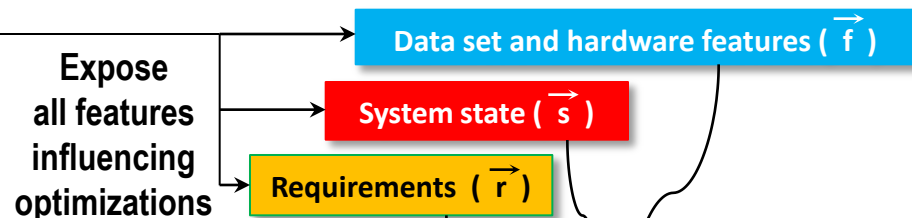


Standard API for non-adaptive libraries

Adaptive libraries (BLAS, FFT, NN) continuously assembled from the most efficient routines (species) as plugins



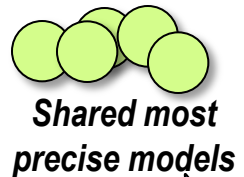
Predict most suitable solutions based on features, system state and requirements when enough knowledge is collected

Minimal set of optimized routines (winning species)

Check behavior (\vec{b})

Detect and record unexpected behavior, numerical instability and performance anomalies

Shared data sets



Shared most precise models

Most efficient species



Shared routines

Most efficient optimizations

Expose to the community to

- expose more optimizations
- add different algorithms
- find missing features
- improve predictive models
- add more data sets

Repositories with continuously optimized workloads and kernels