Other middleware with custom DAOS backends...

**Middleware**
cost ❓
functional ❓
scalable ❓
perf BW ❓
perf MD ❓
caching ❓

**FUSE**
cost Ø
functional ✅
scalable ✅
perf BW 🔻
perf MD 🔻
caching ✅

dFuse provides no effort path. Performance will be suspect, but does provide caching and buffering which can be positive for performance.
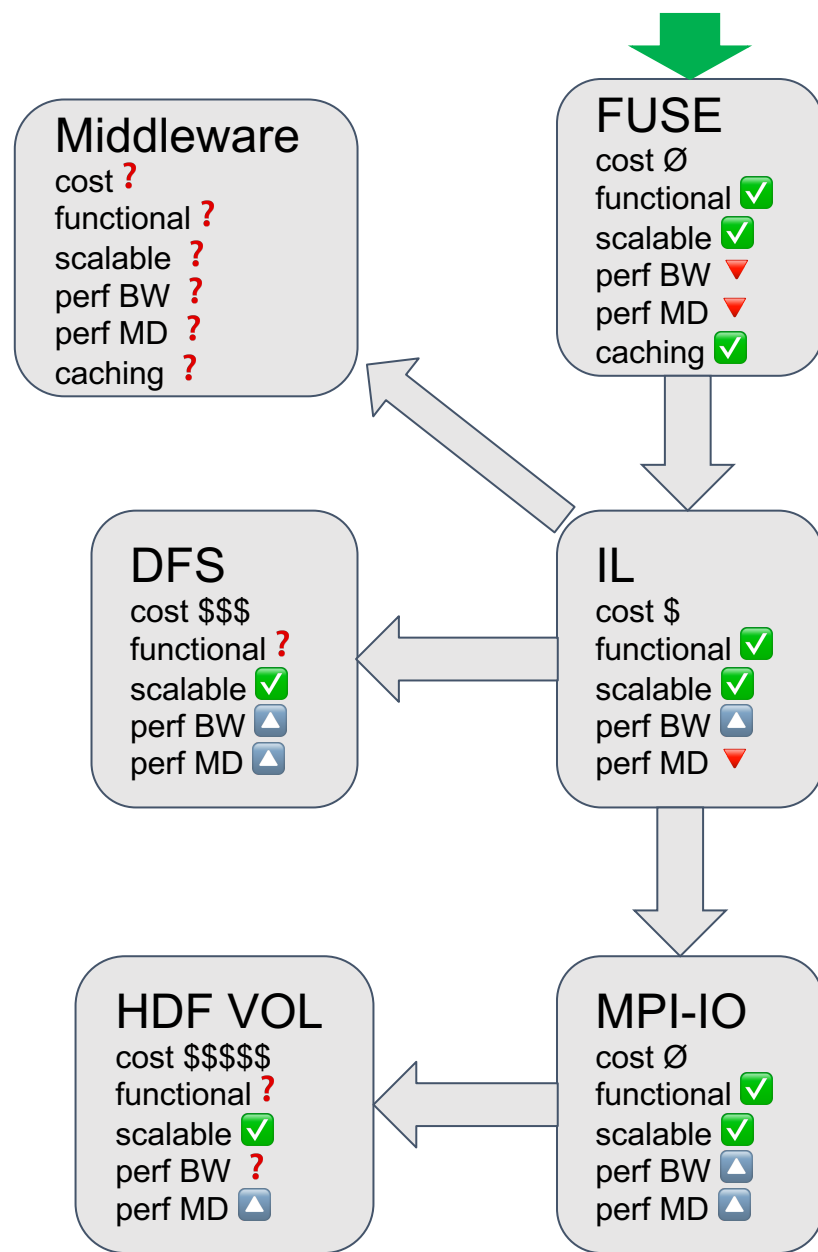
DFS API very similar to POSIX but requires porting all your I/O code. Allows ability for low level control of objects.

**DFS**
cost $$$
functional ❓
scalable ✅
perf BW 🔼
perf MD 🔼

**IL**
cost $
functional ✅
scalable ✅
perf BW 🔼
perf MD 🔻

Interception Library low effort with large performance upside on BW. Potential issue with functionality if more esoteric interfaces used.

HDF VOL usage will require (potentially) significant rework. Need to understand usage before making changes

**HDF VOL**
cost $$$$$
functional ❓
scalable ✅
perf BW ❓
perf MD 🔼

**MPI-IO**
cost Ø
functional ✅
scalable ✅
perf BW 🔼
perf MD 🔼

MPI-IO with DAOS ADIO Should be transparent and provide best possible performance.

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