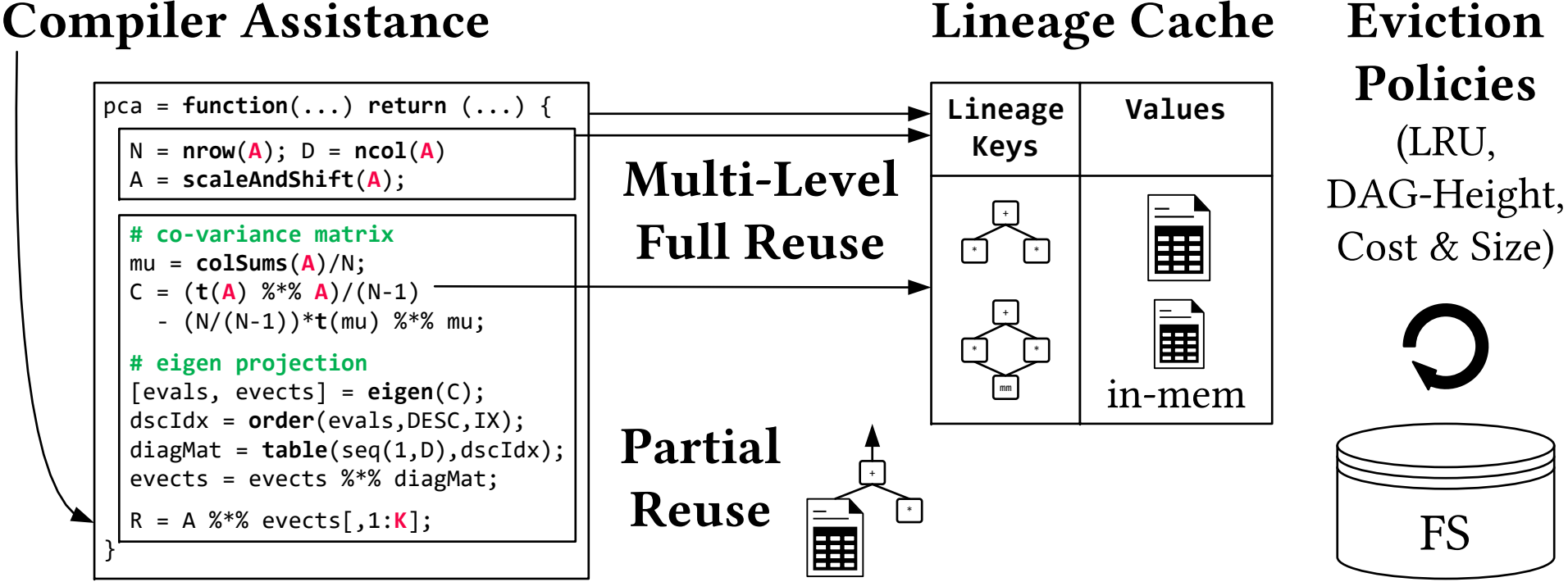
Compiler Assistance
pca = function(...) return (...) {
N = nrow(A); D = ncol(A)
A = scaleAndShift(A);
# co-variance matrix
mu = colSums(A)/N;
C = (t(A) %*% A)/(N-1)
- (N/(N-1))*t(mu) %*% mu;
eigen projection
[evals, evects] = eigen(C);
dscIdx = order(evals,DESC,IX);
diagMat = table(seq(1,D),dscIdx);
evects = evects %*% diagMat;
R = A %*% evects[,1:K];
}
Multi-Level Full Reuse
Partial Reuse
Lineage Cache
Lineage Keys
Values
mm
in-mem
Eviction Policies
(LRU, DAG-Height, Cost & Size)
FS