Optimization of Arbitrary Loop Nests

```
CodeReg scop {
perfect = BuiltIn.IsPerfectLoopNest();
depth = BuiltIn.LoopNestDepth();
if (RoseLocus.IsDepAvailable()) {
  if (perfect && depth > 1) {
    permorder = permutation(seq(0,depth));
    RoseLocus.Interchange(order=permorder);
    if (perfect) {
      indexT1 = integer(1..depth);
     T1fac = poweroftwo(2...32);
     RoseLocus.Tiling(loop=indexT1, factor=T1fac);
  } OR {
   if (depth > 1) {
      indexUAJ = integer(1..depth-1);
     UAJfac = poweroftwo(2..4);
     RoseLocus.UnrollAndJam(loop=indexUAJ,
                             factor=UAJfac);
  } OR {
    None; # No tiling, interchange, or unroll and jam.
  innerloops = BuiltIn.ListInnerLoops();
  *RoseLocus.Distribute(loop=innerloops);
innerloops = BuiltIn.ListInnerLoops();
RoseLocus.Unroll(loop=innerloops,
                 factor=poweroftwo(2..8));
```



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innerloops = BuiltIn.ListInnerLoops();
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