



Or an intermediate case:

foreach i:

```

t0 := a[i] ⊗ b[i]
t1 := c[i] ⊗ d[i]
t2[i] := e[i] ⊗ f[i]
t3 := t0 ⊗ t1
t4[i] := t1 ⊗ t2
t6[i] := t1 ⊗ t3

```

foreach i:

```

t5 := t4[i] ⊗ t2[i]
t7 := t5 ⊗ t6
t8 := t7 ⊗ t5
t9[i] := t8 ⊗ t4

```

Note that this changes which quantities are arrays and which are scalars.