

C: {Dense,Dense,{0,1}}
B: {Dense,Dense,{0,1}}
A: {Dense,Compressed,{0,1}}
stmt: C(i,k) = A(i,k) * B(j,k)

```
| scalarPromote(stmt.reorder({i, k, j}).fuse(i, k, io) |  
| .split(io, ko, ki, 8).reorder({ko, ki, j}) |  
| .pos(j, jpos, A(i, j)).reorder({ko, ki, jpos}) |  
| .split(jpos, jpos0, jpos1, 32) |  
| .reorder({ko, ki, jpos1, jpos0}) |  
| .parallelize(ko, GPUBlock, IgnoreRaces) |  
| .parallelize(ki, GPUWarp, Atomics) |  
| .parallelize(jpos1, GPUThread, ParallelReduction)) |  
| |
```

数据格式和表达式

调度语言

```
| ... |  
| int32_t ko = blockIdx.x; |  
| int32_t jpos1 = threadIdx.x % 32; |  
| int32_t ki = threadIdx.x / 32; |  
| ... |  
| atomicAddWarp<float>(C_vals, kC, tjpos1C_val); |  
| ... |
```

底层代码

分块语义

同步语义