```
for (int i = 0; i < 4096; ++i) {
    a[i] = c*b[i];
}
```

**32**          **32**          **32**          **32**

**32** 1K threads **32** 1K threads **32** 1K threads **32** 1K threads **Gangs**

```
for (int i = 0; i < 1K; ++i){
    a[i] = c*b[i];
}
```
```
for (int i = 1K; i < 2K; ++i){
    a[i] = c*b[i];
}
```
```
for (int i = 2K; i < 3K; ++i){
    a[i] = c*b[i];
}
```
```
for (int i = 3K; i < 4K; ++i){
    a[i] = c*b[i];
}
```

**Gang Partitioned**

**Worker Single**

**Vector Single**