Cache hit / miss? Branch prediction?

```
for ( i = 0; i < 10; i++)
  if ( a[i] > b[i] )
    c[i] = c[i-1] + a[i];
  else
    c[i] = c[i-1] = b[i];
```

Data dependency?

Out-of-order execution?
Multithreading?