Multiplication Register Usage

(IBM)

R0	R1
R2	R3
R4	R5
R8	R9
R14	R15

```
L    R3, X
L    R9, Y
MR   R2,R9
```

Product

high: R2
low: R3

Uses any EVEN:ODD register pair as multiplicand.

(Intel)

RAX	RBX
RCX	RDX
R8	R9
R14	R15

```
MOV   RAX, X
CQO
MOV   RBX, Y
IMUL  RBX
```

Product

high: RDX
low: RAX

Must use the RDX:RAX registers as the multiplicand.