

Illustration #1 for claim 1 of "Mechanism to detect... sub-state retention..."

Instruction stream

A Request "preservation" of subset of functional unit.

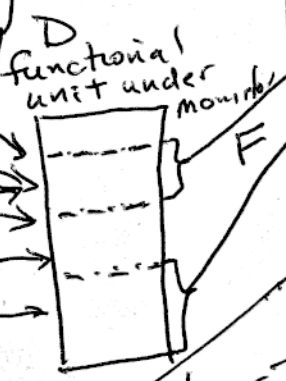
```
csrrsi X0, mrqp, bo010
```

B Determine preserved state

- Set 110 in state tracking register
- clear XIX
- clear lxx

tracking register read

C code execution that modifies functional unit e.g. ld X1, X'05' etc.



G

```
csrrw r2, mrqp, r2
bbset r2, group1-pres
bbset v2, group2-pres
```

J

```
csrrw r2, mrqp, r2
```

L

K

H I