



mechanism (2)

- token counting

$T$  tokens, in memory,  
in cache, or in msg

4 rules

1. At all times, exactly  $T$  tokens exist, 1 is owner
2. A proc. can write to a block only if it has  $T$  tok
3. " " read a " " " "  $\geq 1$  tok
4. If a coherence msg contains the owner token,  
it also contains valid data.

persistent requests

throw out, e.g.

upon detection of potential starvation  
initiate pers. req.

1 pers. req. is allowed per block  
this triggers all tokens to go to requester

see Fig 2 in Martin, Hill, Wood