

## Exercise 3s

Names: Cordovi, Hörmandinger, Strelchenko

**1**

30MB Cache and 64B Line size  $\rightarrow$  491520 Lines

2 extra Bits per line needed for MESI Protocol  $\rightarrow$  120KB needed

**2**

State	M	E	S	I
M	F	F	T	T
E	F	T	T	T
S	T	T	F	T
I	T	T	T	T

**3**

Step	Operation(Proc)	C0	C1	C2	C3	Comments
0		I	I	I	I	
1	read (P0)	E	I	I	I	
2	write (P0)	M	I	I	I	
3	read (P1)	M	S	I	I	
4	write (P2)	I	I	M	I	
5	read (P2)	I	I	M	I	
6	read (P3)	I	I	M	S	
7	write (P0)	M	I	I	I	
8	write (P1)	I	M	I	I	
9	read (P0)	S	M	I	I	