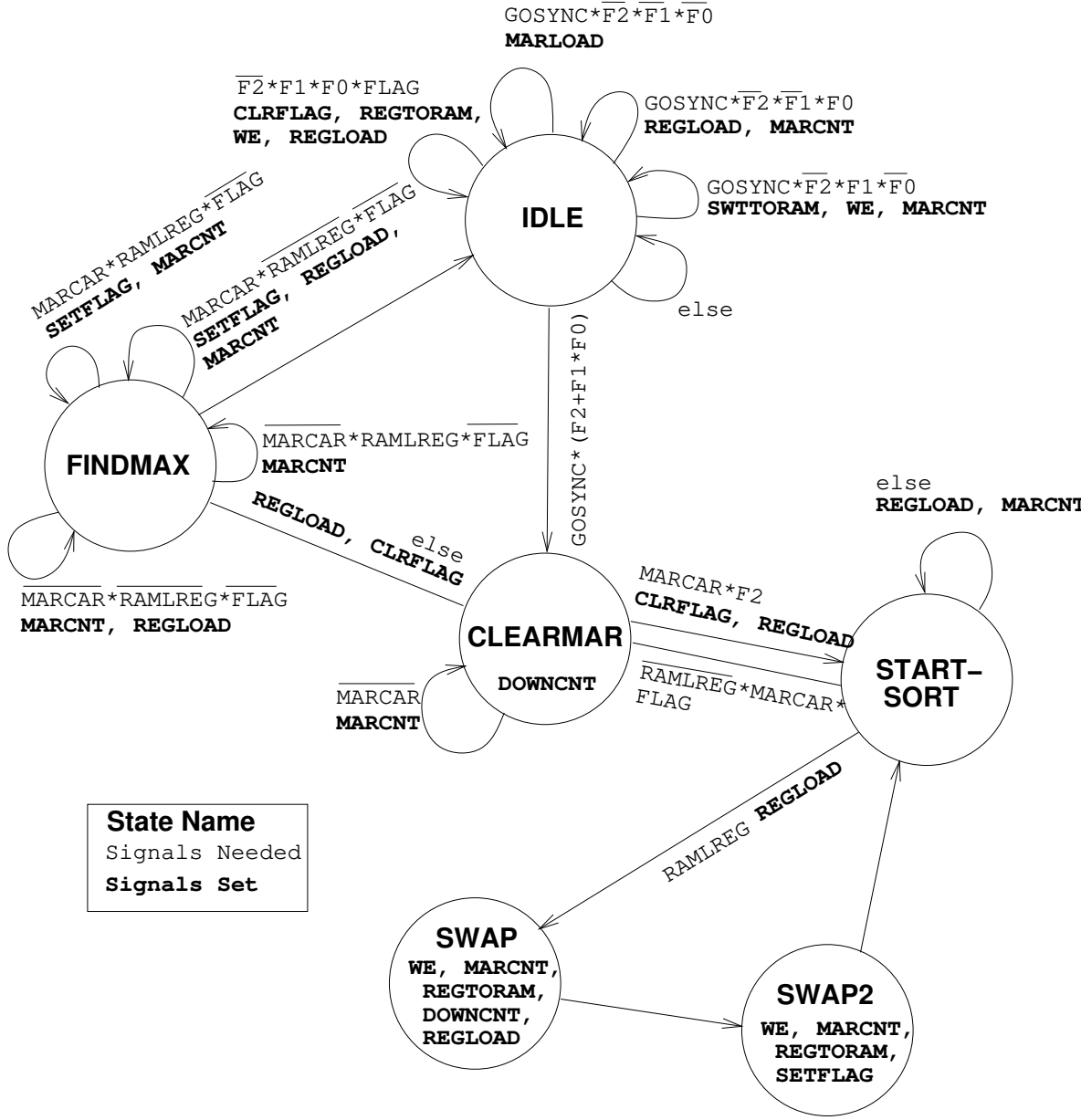
GOSYNC*$\overline{F2}$*$\overline{F1}$*$\overline{F0}$
MARLOAD
$\overline{F2}$*F1*F0*FLAG
CLRFLAG, REGTORAM, WE, REGLOAD
GOSYNC*$\overline{F2}$*$\overline{F1}$*F0
REGLOAD, MARCNT
GOSYNC*$\overline{F2}$*F1*$\overline{F0}$
SWTTORAM, WE, MARCNT
IDLE
else
MARCAR*RAMLREG*$\overline{FLAG}$
SETFLAG, MARCNT
MARCAR*$\overline{RAMLREG}$*$\overline{FLAG}$
SETFLAG, REGLOAD, MARCNT
FINDMAX
$\overline{MARCAR}$*RAMLREG*$\overline{FLAG}$
MARCNT
REGLOAD, CLRFLAG
else
$\overline{MARCAR}$*$\overline{RAMLREG}$*$\overline{FLAG}$
MARCNT, REGLOAD
GOSYNC*(F2+F1*F0)
else
REGLOAD, MARCNT
MARCAR*F2
CLRFLAG, REGLOAD
CLEARMAR
DOWNCNT
$\overline{MARCAR}$
MARCNT
$\overline{RAMLREG}$*MARCAR*
FLAG
START-SORT
RAMLREG REGLOAD
SWAP
WE, MARCNT, REGTORAM, DOWNCNT, REGLOAD
SWAP2
WE, MARCNT, REGTORAM, SETFLAG
State Name
Signals Needed
Signals Set