

82C457 TDL (Toshiba Description Language) Netlist

```
COMPILE $
OPTIONS : REPLACE,XREF $
MODULE : LDCNT5/// $
INPUTS :
    D0,D1,D2,D3,D4,LOAD,CLK
$
OUTPUTS :
    Q0,Q1,Q2,Q3,Q4,U8Z
$
DESCRIPTION : MODULE FOR LDCNT5 $
LEVEL : FUNCTION $
USE :
    FD1S /// MASTER
    ,FJK1S /// MASTER
    ,NR2 /// MASTER
    ,ND2 /// MASTER
    ,IV /// MASTER
$
DEFINE :
    U1( Q0,U1QN ) = FD1S ( U1QN,CLK,D0,LOAD ) $
    U2( Q1,U2QN ) = FJK1S ( Q0,Q0,CLK,D1,LOAD
        ) $
    U4( Q2, ) = FJK1S ( U3Z,U3Z,CLK,D2,LOAD
        ) $
    U7( Q3,U7QN ) = FJK1S ( U6Z,U6Z,CLK,D3,LOAD
        ) $
    U9( Q4, ) = FJK1S ( U8Z,U8Z,CLK,D4,LOAD
        ) $
    U3( U3Z ) = NR2 ( U2QN,U1QN ) $
    U8( U8Z ) = NR2 ( U7QN,U5Z ) $
    U5( U5Z ) = ND2 ( Q2,U3Z ) $
    U6( U6Z ) = IV ( U5Z ) $
END : MODULE $
MODULE : DFF4/// $
INPUTS :
    D0,D1,D2,D3,CLK
$
OUTPUTS :
    Q0,Q1,Q2,Q3
$
DESCRIPTION : MODULE FOR DFF4 $
LEVEL : FUNCTION $
USE :
    YFD1 /// MASTER
$
DEFINE :
    RB398( Q0, ) = YFD1 ( D0,CLK ) $
    RB399( Q1, ) = YFD1 ( D1,CLK ) $
    RB400( Q2, ) = YFD1 ( D2,CLK ) $
    RB401( Q3, ) = YFD1 ( D3,CLK ) $
END : MODULE $
MODULE : TCNT6/// $
INPUTS :
    CLRN,CL
$
OUTPUTS :
    Q0,NQ0,Q1,NQ1,Q2,NQ2,Q3,NQ3,Q4,NQ4,Q5,NQ5
$
```

DESCRIPTION : MODULE FOR TCNT6 \$

LEVEL : FUNCTION \$

USE :
YFD2 /// MASTER

\$

DEFINE :

YFD2T5(Q5,NQ5) = YFD2 (NQ5,NQ4,CLRN) \$
YFD2T4(Q4,NQ4) = YFD2 (NQ4,NQ3,CLRN) \$
YFD2T3(Q3,NQ3) = YFD2 (NQ3,NQ2,CLRN) \$
YFD2T2(Q2,NQ2) = YFD2 (NQ2,NQ1,CLRN) \$
YFD2T1(Q1,NQ1) = YFD2 (NQ1,NQ0,CLRN) \$
YFD2T0(Q0,NQ0) = YFD2 (NQ0,CL,CLRN) \$

END : MODULE \$

MODULE : TCNT4/// \$

INPUTS :
CL,CLRN

\$

OUTPUTS :
Q0,NQ0,Q1,NQ1,Q2,NQ2,Q3,NQ3

\$

DESCRIPTION : MODULE FOR TCNT4 \$

LEVEL : FUNCTION \$

USE :
YFD2 /// MASTER

\$

DEFINE :

YFD2T3(Q3,NQ3) = YFD2 (NQ3,NQ2,CLRN) \$
YFD2T2(Q2,NQ2) = YFD2 (NQ2,NQ1,CLRN) \$
YFD2T1(Q1,NQ1) = YFD2 (NQ1,NQ0,CLRN) \$
YFD2T0(Q0,NQ0) = YFD2 (NQ0,CL,CLRN) \$

END : MODULE \$

MODULE : ADD1M1/// \$

INPUTS :
B,A,CIN,SELS,CL,NMR

\$

OUTPUTS :
COUT,S,Q,NQ

\$

DESCRIPTION : MODULE FOR ADD1M1 \$

LEVEL : FUNCTION \$

USE :
MUX21L /// MASTER
,FD4 /// MASTER
,FA1P /// MASTER

\$

DEFINE :

MUX21A(D) = MUX21L (A,S,SELS) \$
FFD(NQ,Q) = FD4 (D,CL,NMR) \$
ADRFB(S,COUT) = FA1P (CIN,Q,B) \$

END : MODULE \$

MODULE : SUB4M/// \$

INPUTS :
A3,A2,A1,A0,BOIN

\$

OUTPUTS :
S3,S2,S1,S0

\$

DESCRIPTION : MODULE FOR SUB4M \$

LEVEL : FUNCTION \$

```

USE :
    EON1P /// MASTER
    ,ND4P /// MASTER
    ,IVP /// MASTER
    ,ND3P /// MASTER
    ,ND2P /// MASTER
    ,EO1P /// MASTER

$
DEFINE :
    SUB49( S3 ) = EON1P ( A3,B02,A3,B02 ) $
    SUB48( B02 ) = ND4P ( A2N,A1N,A0N,BOIN ) $
    SUB47( A2N ) = IVP ( A2 ) $
    SUB46( S2 ) = EON1P ( A2,B01,A2,B01 ) $
    SUB45( B01 ) = ND3P ( A1N,A0N,BOIN ) $
    SUB44( S1 ) = EON1P ( A1,B00,A1,B00 ) $
    SUB43( B00 ) = ND2P ( A0N,BOIN ) $
    SUB42( S0 ) = EO1P ( A0,BOIN,A0,BOIN ) $
    SUB41( A0N ) = IVP ( A0 ) $
    SUB40( A1N ) = IVP ( A1 ) $
END : MODULE $
MODULE : SEL816/// $
INPUTS :
    A0,A1,A2,A3,A4,A5,A6,A7,B0,B1,B2,B3,B4A,B5,B6,B7,S
$
OUTPUTS :
    Y0,Y1,Y2,Y3,Y4,Y5,Y6,Y7
$
DESCRIPTION : MODULE FOR SEL816 $
LEVEL : FUNCTION $
USE :
    IVAP /// MASTER
    ,YMUX24LP /// MASTER

$
DEFINE :
    RB590( Y7 ) = IVAP ( Y7I ) $
    RB589( Y6 ) = IVAP ( Y6I ) $
    RB588( Y5 ) = IVAP ( Y5I ) $
    RB587( Y4 ) = IVAP ( Y4I ) $
    RB586( Y3 ) = IVAP ( Y3I ) $
    RB585( Y2 ) = IVAP ( Y2I ) $
    RB584( Y1 ) = IVAP ( Y1I ) $
    RB583( Y0 ) = IVAP ( Y0I ) $
    RB398( Y0I,Y1I,Y2I,Y3I ) = YMUX24LP ( A0,B0,A1
        ,B1,A2,B2,A3,B3,S ) $
    RB399( Y4I,Y5I,Y6I,Y7I ) = YMUX24LP ( A4,B4A,A5
        ,B5,A6,B6,A7,B7,S ) $
END : MODULE $
MODULE : SCNT5M/// $
INPUTS :
    D0,D1,D2,D3,D4,LOAD,CLK
$
OUTPUTS :
    Q0,Q1,Q2,Q3,Q4,NQ0,NQ1,NQ2,NQ3,NQ4
$
DESCRIPTION : MODULE FOR SCNT5M $
LEVEL : FUNCTION $
USE :
    NR2 /// MASTER
    ,FJK1S /// MASTER
    ,ND2 /// MASTER

```

```
,IV /// MASTER
,FD1S /// MASTER
```

```
$
```

```
DEFINE :
```

```
U322( Q4T ) = NR2 ( U5Z,NQ3 ) $
RB440( Q4,NQ4 ) = FJK1S ( Q4T,Q4T,CLK,D4,LOAD
) $
RB398( Q1,NQ1 ) = FJK1S ( Q0,Q0,CLK,D1,LOAD
) $
RB399( Q2,NQ2 ) = FJK1S ( U3Z,U3Z,CLK,D2,LOAD
) $
RB400( Q3,NQ3 ) = FJK1S ( U6Z,U6Z,CLK,D3,LOAD
) $
U3( U3Z ) = NR2 ( NQ1,NQ0 ) $
U5( U5Z ) = ND2 ( Q2,U3Z ) $
U6( U6Z ) = IV ( U5Z ) $
RB401( Q0,NQ0 ) = FD1S ( NQ0,CLK,D0,LOAD ) $
```

```
END : MODULE $
```

```
MODULE : SCNT4M/// $
```

```
INPUTS :
```

```
D0,D1,D2,D3,LOAD,CLK
```

```
$
```

```
OUTPUTS :
```

```
Q0,Q1,Q2,Q3,NQ0,NQ1,NQ2,NQ3
```

```
$
```

```
DESCRIPTION : MODULE FOR SCNT4M $
```

```
LEVEL : FUNCTION $
```

```
USE :
```

```
FJK1S /// MASTER
, NR2 /// MASTER
, ND2 /// MASTER
, IV /// MASTER
, FD1S /// MASTER
```

```
$
```

```
DEFINE :
```

```
RB398( Q1,NQ1 ) = FJK1S ( Q0,Q0,CLK,D1,LOAD
) $
RB399( Q2,NQ2 ) = FJK1S ( U3Z,U3Z,CLK,D2,LOAD
) $
RB400( Q3,NQ3 ) = FJK1S ( U6Z,U6Z,CLK,D3,LOAD
) $
U3( U3Z ) = NR2 ( NQ1,NQ0 ) $
U5( U5Z ) = ND2 ( Q2,U3Z ) $
U6( U6Z ) = IV ( U5Z ) $
RB401( Q0,NQ0 ) = FD1S ( NQ0,CLK,D0,LOAD ) $
```

```
END : MODULE $
```

```
MODULE : LDCNT10/// $
```

```
INPUTS :
```

```
D0,D1,D2,D3,D4,D5,D6,D7,D8,D9,LOAD,CLK
```

```
$
```

```
OUTPUTS :
```

```
Q0,Q1,Q2,Q3,Q4,Q5,Q6,Q7,Q8,Q9,Q9N,U12Z
```

```
$
```

```
DESCRIPTION : MODULE FOR LDCNT10 $
```

```
LEVEL : FUNCTION $
```

```
USE :
```

```
LDCNT5 ///
, FJK1S /// MASTER
, ND2 /// MASTER
, IV /// MASTER
```

,NR2 /// MASTER

\$

DEFINE :

```
U1( Q0,Q1,Q2,Q3,Q4,U1Z ) = LDCNT5 ( D0
    ,D1,D2,D3,D4,LOAD,CLK ) $
U4( Q5,U4N ) = FJK1S ( U3Z,U3Z,CLK,D5,LOAD
    ) $
U6( Q6, ) = FJK1S ( U5Z,U5Z,CLK,D6,LOAD
    ) $
U9( Q7,U9Z ) = FJK1S ( U8Z,U8Z,CLK,D7,LOAD
    ) $
U11( Q8, ) = FJK1S ( U10Z,U10Z,CLK,D8,LOAD
    ) $
U14( Q9,Q9N ) = FJK1S ( U13Z,U13Z,CLK,D9,LOAD
    ) $
U2( U2Z ) = ND2 ( Q4,U1Z ) $
U3( U3Z ) = IV ( U2Z ) $
U5( U5Z ) = NR2 ( U2Z,U4N ) $
U7( U7Z ) = ND2 ( Q6,U5Z ) $
U8( U8Z ) = IV ( U7Z ) $
U10( U10Z ) = NR2 ( U7Z,U9Z ) $
U12( U12Z ) = ND2 ( Q8,U10Z ) $
U13( U13Z ) = IV ( U12Z ) $
```

END : MODULE \$

MODULE : LDCLCNT5/// \$

INPUTS :

D0,D1,D2,D3,D4,LOAD,CLK,CL

\$

OUTPUTS :

Q0,Q1,Q2,Q3,Q4,U8Z

\$

DESCRIPTION : MODULE FOR LDCLCNT5 \$

LEVEL : FUNCTION \$

USE :

FJK2S /// MASTER

,NR2 /// MASTER

,ND2 /// MASTER

,IV /// MASTER

,FD2S /// MASTER

\$

DEFINE :

```
RB398( Q1,U2QN ) = FJK2S ( Q0,Q0,CLK,CL,D1
    ,LOAD ) $
RB399( Q2, ) = FJK2S ( U3Z,U3Z,CLK,CL,D2
    ,LOAD ) $
RB400( Q3,U7QN ) = FJK2S ( U6Z,U6Z,CLK,CL,D3
    ,LOAD ) $
RB401( Q4, ) = FJK2S ( U8Z,U8Z,CLK,CL,D4
    ,LOAD ) $
U3( U3Z ) = NR2 ( U2QN,U1QN ) $
U8( U8Z ) = NR2 ( U7QN,U5Z ) $
U5( U5Z ) = ND2 ( Q2,U3Z ) $
U6( U6Z ) = IV ( U5Z ) $
RB402( Q0,U1QN ) = FD2S ( U1QN,CLK,CL,D0,LOAD
    ) $
```

END : MODULE \$

MODULE : EQU110P/// \$

INPUTS :

B9,B8A,B7,B6,B5,B4A,B3,B2,B1,B0,A9,A8,A7,A6,A5,A4,A3,A2,A1,A0

```

$
OUTPUTS :
    EQ
$
DESCRIPTION : MODULE FOR EQU10P $
LEVEL : FUNCTION $
USE :
    EO /// MASTER
    ,NR4P /// MASTER
    ,OR4 /// MASTER

$
DEFINE :
    BIT0( C0 ) = EO ( A0,B0 ) $
    BIT1( C1 ) = EO ( A1,B1 ) $
    BIT2( C2 ) = EO ( A2,B2 ) $
    BIT3( C3 ) = EO ( A3,B3 ) $
    BIT4( C4 ) = EO ( A4,B4A ) $
    BIT5( C5 ) = EO ( A5,B5 ) $
    BIT6( C6 ) = EO ( A6,B6 ) $
    BIT7( C7 ) = EO ( A7,B7 ) $
    BIT8( C8 ) = EO ( A8,B8A ) $
    BIT9( C9 ) = EO ( A9,B9 ) $
    EQS( EQ ) = NR4P ( EQ03N,EQ47N,C8,C9 ) $
    RB184( EQ03N ) = OR4 ( C0,C1,C2,C3 ) $
    RB186( EQ47N ) = OR4 ( C4,C5,C6,C7 ) $
END : MODULE $
MODULE : DFF8/// $
INPUTS :
    D0,D1,D2,D3,D4,D5,D6,D7,CLK
$
OUTPUTS :
    Q0,Q1,Q2,Q3,Q4,Q5,Q6,Q7
$
DESCRIPTION : MODULE FOR DFF8 $
LEVEL : FUNCTION $
USE :
    DFF4 ///

$
DEFINE :
    RB398( Q0,Q1,Q2,Q3 ) = DFF4 ( D0,D1,D2
        ,D3,CLK ) $
    RB399( Q4,Q5,Q6,Q7 ) = DFF4 ( D4,D5,D6
        ,D7,CLK ) $
END : MODULE $
MODULE : DFF4P/// $
INPUTS :
    D0,D1,D2,D3,CLK
$
OUTPUTS :
    Q0,Q1,Q2,Q3,Q0N,Q1N,Q2N,Q3N
$
DESCRIPTION : MODULE FOR DFF4P $
LEVEL : FUNCTION $
USE :
    FD1P /// MASTER

$
DEFINE :
    RB398( Q0,Q0N ) = FD1P ( D0,CLK ) $
    RB399( Q1,Q1N ) = FD1P ( D1,CLK ) $

```

```

RB400( Q2,Q2N ) = FD1P ( D2,CLK ) $
RB401( Q3,Q3N ) = FD1P ( D3,CLK ) $
END : MODULE $
MODULE : DFFS4/// $
INPUTS :
    CLK,TE, TI3, TI2, TI1, TI0, D3, D2, D1, D0
$
OUTPUTS :
    Q3, Q2, Q1, Q0
$
DESCRIPTION : MODULE FOR DFFS4 $
LEVEL : FUNCTION $
USE :
    FD1S /// MASTER
$
DEFINE :
    CC04( Q3, ) = FD1S ( D3,CLK, TI3,TE ) $
    CC03( Q2, ) = FD1S ( D2,CLK, TI2,TE ) $
    CC02( Q1, ) = FD1S ( D1,CLK, TI1,TE ) $
    CC01( Q0, ) = FD1S ( D0,CLK, TI0,TE ) $
END : MODULE $
MODULE : DCNT4/// $
INPUTS :
    CLN,CLK
$
OUTPUTS :
    Q3N, Q2N, Q1N, Q0N, Q3, Q2, Q1, Q0
$
DESCRIPTION : MODULE FOR DCNT4 $
LEVEL : FUNCTION $
USE :
    YFD2 /// MASTER
$
DEFINE :
    CC04( Q3,Q3N ) = YFD2 ( Q3N,Q2N,CLN ) $
    CC03( Q2,Q2N ) = YFD2 ( Q2N,Q1N,CLN ) $
    CC02( Q1,Q1N ) = YFD2 ( Q1N,Q0N,CLN ) $
    CC01( Q0,Q0N ) = YFD2 ( Q0N,CLK,CLN ) $
END : MODULE $
MODULE : YLDG8/// $
INPUTS :
    D7, D6, D5, D4, D3, D2, D1, D0, CL
$
OUTPUTS :
    NQ7, Q7, NQ6, Q6, NQ5, Q5, NQ4, Q4, NQ3, Q3, NQ2, Q2, NQ1, Q1, NQ0, Q0
$
DESCRIPTION : MODULE FOR YLDG8 $
LEVEL : FUNCTION $
USE :
    YLD24B /// MASTER
$
DEFINE :
    HI( Q4, NQ4, Q5, NQ5, Q6, NQ6, Q7
        , NQ7 ) = YLD24B ( D4, D5, D6, D7, CL ) $
    LO( Q0, NQ0, Q1, NQ1, Q2, NQ2, Q3
        , NQ3 ) = YLD24B ( D0, D1, D2, D3, CL ) $
END : MODULE $
MODULE : YFD9S/// $
INPUTS :

```

```

CL,D
$
OUTPUTS :
    Q0,NQ0,Q1,NQ1,Q2,NQ2,Q3,NQ3,Q4,NQ4,Q5,NQ5,Q6,NQ6,Q7,NQ7,Q8,NQ8
$
DESCRIPTION : MODULE FOR YFD9S $
LEVEL : FUNCTION $
USE :
    YFD1 /// MASTER
$
DEFINE :
    BIT0( Q0,NQ0 ) = YFD1 ( D,CL ) $
    BIT1( Q1,NQ1 ) = YFD1 ( Q0,CL ) $
    BIT2( Q2,NQ2 ) = YFD1 ( Q1,CL ) $
    BIT3( Q3,NQ3 ) = YFD1 ( Q2,CL ) $
    BIT4( Q4,NQ4 ) = YFD1 ( Q3,CL ) $
    BIT5( Q5,NQ5 ) = YFD1 ( Q4,CL ) $
    BIT6( Q6,NQ6 ) = YFD1 ( Q5,CL ) $
    BIT7( Q7,NQ7 ) = YFD1 ( Q6,CL ) $
    BIT8( Q8,NQ8 ) = YFD1 ( Q7,CL ) $
END : MODULE $
MODULE : TCNT10/// $
INPUTS :
    CL,CLRN,TEST
$
OUTPUTS :
    NQ3,NQ0,NQ1,NQ2,Q0,Q1,Q2,Q3,NQ4,NQ5,NQ6,NQ7,NQ8,NQ9,Q4,Q5,Q6
    ,Q7,Q8,Q9
$
DESCRIPTION : MODULE FOR TCNT10 $
LEVEL : FUNCTION $
USE :
    TCNT6 ///
    ,TCNT4 ///
    ,EO /// MASTER
$
DEFINE :
    TC6( Q4,NQ4,Q5,NQ5,Q6,NQ6,Q7
        ,NQ7,Q8,NQ8,Q9,NQ9 ) = TCNT6 ( CLRN,CL1
        ) $
    TC4( Q0,NQ0,Q1,NQ1,Q2,NQ2,Q3
        ,NQ3 ) = TCNT4 ( CL,CLRN ) $
    EXR( CL1 ) = EO ( TEST,NQ3 ) $
END : MODULE $
MODULE : READ2/// $
INPUTS :
    A0,A1,A2,A3,A4,A5,A6,A7,B0,B1,B2,B3,B4A,B5,B6,B7,NRDA,NRDB
$
OUTPUTS :
    Q0,Q1,Q2,Q3,Q4,Q5,Q6,Q7
$
DESCRIPTION : MODULE FOR READ2 $
LEVEL : FUNCTION $
USE :
    A02 /// MASTER
    ,IVP /// MASTER
$
DEFINE :

```



```

AMUX0( Q0 ) = A02 ( A0,SA,B0,SB ) $
AMUX1( Q1 ) = A02 ( A1,SA,B1,SB ) $
AMUX2( Q2 ) = A02 ( A2,SA,B2,SB ) $
AMUX3( Q3 ) = A02 ( A3,SA,B3,SB ) $
AMUX4( Q4 ) = A02 ( A4,SA,B4A,SB ) $
AMUX5( Q5 ) = A02 ( A5,SA,B5,SB ) $
AMUX6( Q6 ) = A02 ( A6,SA,B6,SB ) $
AMUX7( Q7 ) = A02 ( A7,SA,B7,SB ) $
INV1( SA ) = IVP ( NRDA ) $
INV2( SB ) = IVP ( NRDB ) $
END : MODULE $
MODULE : RAM64/// $
INPUTS :
    DI0,DI1,DI2,DI3,DI4,DI5,RW0,RW1,RW2,RW3,WW0,WW1,WW2,WW3
$
OUTPUTS :
    D00,D01,D02,D03,D04,D05
$
DESCRIPTION : MODULE FOR RAM64 $
LEVEL : FUNCTION $
USE :
    IV /// MASTER
    ,RAM1 /// MASTER
$
DEFINE :
    WB3( U000 ) = IV ( WW3 ) $
    WB2( U001 ) = IV ( WW2 ) $
    WB1( U002 ) = IV ( WW1 ) $
    WB0( U003 ) = IV ( WW0 ) $
    B00( D00, ) = RAM1 ( DI0,U003,WW0,RW0 ) $
    RB89( D00, ) = RAM1 ( DI0,U002,WW1,RW1 ) $
    RB90( D01, ) = RAM1 ( DI1,U002,WW1,RW1 ) $
    B01( D01, ) = RAM1 ( DI1,U003,WW0,RW0 ) $
    B02( D02, ) = RAM1 ( DI2,U003,WW0,RW0 ) $
    RB91( D02, ) = RAM1 ( DI2,U002,WW1,RW1 ) $
    B03( D03, ) = RAM1 ( DI3,U003,WW0,RW0 ) $
    B04( D04, ) = RAM1 ( DI4,U003,WW0,RW0 ) $
    B05( D05, ) = RAM1 ( DI5,U003,WW0,RW0 ) $
    RB92( D03, ) = RAM1 ( DI3,U002,WW1,RW1 ) $
    RB93( D04, ) = RAM1 ( DI4,U002,WW1,RW1 ) $
    RB94( D05, ) = RAM1 ( DI5,U002,WW1,RW1 ) $
    B20( D00, ) = RAM1 ( DI0,U001,WW2,RW2 ) $
    B30( D00, ) = RAM1 ( DI0,U000,WW3,RW3 ) $
    B21( D01, ) = RAM1 ( DI1,U001,WW2,RW2 ) $
    B31( D01, ) = RAM1 ( DI1,U000,WW3,RW3 ) $
    B22( D02, ) = RAM1 ( DI2,U001,WW2,RW2 ) $
    B32( D02, ) = RAM1 ( DI2,U000,WW3,RW3 ) $
    B23( D03, ) = RAM1 ( DI3,U001,WW2,RW2 ) $
    B33( D03, ) = RAM1 ( DI3,U000,WW3,RW3 ) $
    B24( D04, ) = RAM1 ( DI4,U001,WW2,RW2 ) $
    B34( D04, ) = RAM1 ( DI4,U000,WW3,RW3 ) $
    B25( D05, ) = RAM1 ( DI5,U001,WW2,RW2 ) $
    B35( D05, ) = RAM1 ( DI5,U000,WW3,RW3 ) $
END : MODULE $
MODULE : MUX41I/// $
INPUTS :
    S13,S24,D1,D2,D3,D4,S12,S34
$
OUTPUTS :
    DOUT
$

```

DESCRIPTION : MODULE FOR MUX41I \$

LEVEL : FUNCTION \$

USE :
A02 /// MASTER
,IV /// MASTER

\$

DEFINE :

RB86(D12N) = A02 (D1,S13,D2,S24) \$
B1N(D12) = IV (D12N) \$
RB95(D34N) = A02 (D3,S13,D4,S24) \$
B2N(D34) = IV (D34N) \$
RB98(DOUTN) = A02 (S12,D12,S34,D34) \$
B3N(DOUT) = IV (DOUTN) \$

END : MODULE \$

MODULE : MUXFD/// \$

INPUTS :
I1,I2,I3,I4,CL

\$

OUTPUTS :
NQ,Q

\$

DESCRIPTION : MODULE FOR MUXFD \$

LEVEL : FUNCTION \$

USE :
A02P /// MASTER
,FD1 /// MASTER

\$

DEFINE :

RB86(D) = A02P (I1,I2,I3,I4) \$
RB95(Q,NQ) = FD1 (D,CL) \$

END : MODULE \$

MODULE : FCOUP4/// \$

INPUTS :
CLK,LOAD,RESET,D0,ND0,D1,ND1,D2,NT40,D3,ND3A

\$

OUTPUTS :
CNTOUT,Q0,NQ0,Q1,NQ1,Q2,NQ2,Q3,NQ3

\$

DESCRIPTION : MODULE FOR FCOUP4 \$

LEVEL : FUNCTION \$

USE :
FD3 /// MASTER
,FJK3P /// MASTER
,NR2 /// MASTER
,AN2 /// MASTER
,ND4 /// MASTER
,ND2 /// MASTER
,A06 /// MASTER

\$

DEFINE :

BIT0(Q0,NQ0) = FD3 (NQ0,CLK,CLR0,SET0) \$
BIT1(Q1,NQ1) = FJK3P (Q0,Q0,CLK,CLR1,SET1) \$
BIT2(Q2,NQ2) = FJK3P (CNT2,CNT2,CLK,CLR2,SET2) \$
BIT3(Q3,NQ3) = FJK3P (CNT3,CNT3,CLK,CLR3,SET3) \$
NR2B(CNT2) = NR2 (NQ0,NQ1) \$
AN2C(CNT3) = AN2 (CNT2,Q2) \$

```

ND4D( CNTOUT ) = ND4 ( Q0,Q1,Q2,Q3 ) $
ND2E( SET0 ) = ND2 ( LOAD,D0 ) $
A06F( CLR0 ) = A06 ( LOAD,ND0,RESET ) $
ND2G( SET1 ) = ND2 ( LOAD,D1 ) $
A06H( CLR1 ) = A06 ( LOAD,ND1,RESET ) $
ND2J( SET2 ) = ND2 ( LOAD,D2 ) $
A06K( CLR2 ) = A06 ( LOAD,NT40,RESET ) $
ND2L( SET3 ) = ND2 ( LOAD,D3 ) $
A06M( CLR3 ) = A06 ( LOAD,ND3A,RESET ) $
END : MODULE $
MODULE : EQU10/// $
INPUTS :
    B9,B8A,B7,B6,B5,B4A,B3,B2,B1,B0,A9,A8,A7,A6,A5,A4,A3,A2,A1,A0

```

```

$
OUTPUTS :
    EQ
$
DESCRIPTION : MODULE FOR EQU10 $
LEVEL : FUNCTION $
USE :
    EO /// MASTER
    ,NR4 /// MASTER
    ,OR4 /// MASTER

```

```

$
DEFINE :
    BIT0( C0 ) = EO ( A0,B0 ) $
    BIT1( C1 ) = EO ( A1,B1 ) $
    BIT2( C2 ) = EO ( A2,B2 ) $
    BIT3( C3 ) = EO ( A3,B3 ) $
    BIT4( C4 ) = EO ( A4,B4A ) $
    BIT5( C5 ) = EO ( A5,B5 ) $
    BIT6( C6 ) = EO ( A6,B6 ) $
    BIT7( C7 ) = EO ( A7,B7 ) $
    BIT8( C8 ) = EO ( A8,B8A ) $
    BIT9( C9 ) = EO ( A9,B9 ) $
    EQS( EQ ) = NR4 ( EQ03N,EQ47N,C8,C9 ) $
    RB184( EQ03N ) = OR4 ( C0,C1,C2,C3 ) $
    RB186( EQ47N ) = OR4 ( C4,C5,C6,C7 ) $

```

```

END : MODULE $
MODULE : ECOUP4/// $
INPUTS :
    CLK,CNT,E6845,LOAD,RESET,D0,ND0,D1,ND1,D2,NT40,D3,ND3A

```

```

$
OUTPUTS :
    Q0,NQ0,Q1,NQ1,Q2,NQ2,Q3,NQ3
$

```

```

DESCRIPTION : MODULE FOR ECOUP4 $
LEVEL : FUNCTION $
USE :
    FJK3P /// MASTER
    ,ND2 /// MASTER
    ,IV /// MASTER
    ,NR3 /// MASTER
    ,AN2 /// MASTER
    ,A06 /// MASTER
    ,A01 /// MASTER

```

```

$
DEFINE :
    BIT0( Q0,NQ0 ) = FJK3P ( CNT,CNT,CLK,CLR0,SET0

```

```

) $
BIT1( Q1,NQ1 ) = FJK3P ( CNT1,CNT1,CLK,CLR1,SET1
) $
BIT2( Q2,NQ2 ) = FJK3P ( CNT2,CNT2,CLK,CLR2,SET2
) $
BIT3( Q3,NQ3 ) = FJK3P ( CNT3,CNT3,CLK,CLR3,SET3
) $
ND2A( ND2AZ ) = ND2 ( CNT,Q0 ) $
RB262( CNT1 ) = IV ( ND2AZ ) $
NR3B( CNT2 ) = NR3 ( ND2AZ,NQ1,E6845 ) $
AN2C( CNT3 ) = AN2 ( CNT2,Q2 ) $
ND2E( SET0 ) = ND2 ( LOAD,D0 ) $
A06F( CLR0 ) = A06 ( LOAD,ND0,RESET ) $
ND2G( SET1 ) = ND2 ( LOAD,D1 ) $
A06H( CLR1 ) = A06 ( LOAD,ND1,RESET ) $
ND2J( SET2 ) = ND2 ( LOAD,D2 ) $
A06K( CLR2 ) = A01 ( LOAD,NT40,RESET,E6845 ) $
ND2L( SET3 ) = ND2 ( LOAD,D3 ) $
A06M( CLR3 ) = A01 ( LOAD,ND3A,RESET,E6845 ) $
END : MODULE $
MODULE : CNTUP4/// $
INPUTS :
CLK,CNT,LOAD,RESET,D0,ND0,D1,ND1,D2,NT40,D3,ND3A
$
OUTPUTS :
CNTOUT,Q0,NQ0,Q1,NQ1,Q2,NQ2,Q3,NQ3
$
DESCRIPTION : MODULE FOR CNTUP4 $
LEVEL : FUNCTION $
USE :
FJK3P /// MASTER
,ND2 /// MASTER
,IV /// MASTER
,NR2 /// MASTER
,AN2 /// MASTER
,ND4 /// MASTER
,A06 /// MASTER
$
DEFINE :
BIT0( Q0,NQ0 ) = FJK3P ( CNT,CNT,CLK,CLR0,SET0
) $
BIT1( Q1,NQ1 ) = FJK3P ( CNT1,CNT1,CLK,CLR1,SET1
) $
BIT2( Q2,NQ2 ) = FJK3P ( CNT2,CNT2,CLK,CLR2,SET2
) $
BIT3( Q3,NQ3 ) = FJK3P ( CNT3,CNT3,CLK,CLR3,SET3
) $
ND2A( ND2AZ ) = ND2 ( CNT,Q0 ) $
RB262( CNT1 ) = IV ( ND2AZ ) $
NR2B( CNT2 ) = NR2 ( ND2AZ,NQ1 ) $
AN2C( CNT3 ) = AN2 ( CNT2,Q2 ) $
ND4D( CNTOUT ) = ND4 ( Q0,Q1,Q2,Q3 ) $
ND2E( SET0 ) = ND2 ( LOAD,D0 ) $
A06F( CLR0 ) = A06 ( LOAD,ND0,RESET ) $
ND2G( SET1 ) = ND2 ( LOAD,D1 ) $
A06H( CLR1 ) = A06 ( LOAD,ND1,RESET ) $
ND2J( SET2 ) = ND2 ( LOAD,D2 ) $
A06K( CLR2 ) = A06 ( LOAD,NT40,RESET ) $
ND2L( SET3 ) = ND2 ( LOAD,D3 ) $
A06M( CLR3 ) = A06 ( LOAD,ND3A,RESET ) $
END : MODULE $

```

```

MODULE : CAY2/// $
INPUTS :
    SELS,CL,NMR,CIN,ST0,ST1A
$
OUTPUTS :
    S0,S1,Q0,NQ0,Q1,NQ1,COUT
$
DESCRIPTION : MODULE FOR CAY2 $
LEVEL : FUNCTION $
USE :
    FD4 /// MASTER
    ,MUX21L /// MASTER
    ,EO /// MASTER
    ,ND2 /// MASTER
    ,NR2 /// MASTER

```

```

$
DEFINE :
    FD4A( NQ0,Q0 ) = FD4 ( MX0Z,CL,NMR ) $
    FD4B( NQ1,Q1 ) = FD4 ( MX1Z,CL,NMR ) $
    MX0( MX0Z ) = MUX21L ( ST0,S0,SELS ) $
    MX1( MX1Z ) = MUX21L ( ST1A,S1,SELS ) $
    EO( S0 ) = EO ( CIN,Q0 ) $
    RB182( S1 ) = EO ( C1N,NQ1 ) $
    ND2A( C1N ) = ND2 ( CIN,Q0 ) $
    NR2B( COUT ) = NR2 ( C1N,NQ1 ) $
END : MODULE $

```

```

MODULE : CAY1/// $
INPUTS :
    SELS,CL,NMR,CIN,ST0
$
OUTPUTS :
    S0,Q0,NQ0
$
DESCRIPTION : MODULE FOR CAY1 $
LEVEL : FUNCTION $
USE :
    FD4 /// MASTER
    ,MUX21L /// MASTER
    ,EO /// MASTER

```

```

$
DEFINE :
    FD4A( NQ0,Q0 ) = FD4 ( MX0Z,CL,NMR ) $
    MX0( MX0Z ) = MUX21L ( ST0,S0,SELS ) $
    EO( S0 ) = EO ( CIN,Q0 ) $
END : MODULE $

```

```

MODULE : ADD4T/// $
INPUTS :
    A1,A2,A3,B1,B2,B3,A0,B0
$
OUTPUTS :
    S0,S1,S2,S3,COUT
$
DESCRIPTION : MODULE FOR ADD4T $
LEVEL : FUNCTION $
USE :
    HA1 /// MASTER
    ,FA1A /// MASTER

```

```

$
DEFINE :

```

```

AD5( S0,CI1 ) = HA1 ( A0,B0 ) $
AD6( S1,CI2 ) = FA1A ( CI1,A1,B1 ) $
AD7( S2,CI3 ) = FA1A ( CI2,A2,B2 ) $
AD8( S3,COUT ) = FA1A ( CI3,A3,B3 ) $
END : MODULE $
MODULE : ADD4M1/// $
INPUTS :
    B3,ST3,B2,ST2,B1,ST1A,B0,ST0,CIN,SELS,CL,NMR
$
OUTPUTS :
    COUT,S3,S2,S1,S0,NQ3,Q3,NQ2,Q2,NQ1,Q1,NQ0,Q0
$
DESCRIPTION : MODULE FOR ADD4M1 $
LEVEL : FUNCTION $
USE :
    ADD1M1 ///
$
DEFINE :
    ADD13( COUT,S3,Q3,NQ3 ) = ADD1M1 ( B3,ST3,C2
        ,SELS,CL,NMR ) $
    ADD12( C2,S2,Q2,NQ2 ) = ADD1M1 ( B2,ST2,C1
        ,SELS,CL,NMR ) $
    ADD11( C1,S1,Q1,NQ1 ) = ADD1M1 ( B1,ST1A,C0
        ,SELS,CL,NMR ) $
    ADD10( C0,S0,Q0,NQ0 ) = ADD1M1 ( B0,ST0,CIN
        ,SELS,CL,NMR ) $
END : MODULE $
MODULE : TCNT8/// $
INPUTS :
    CLRN,CL
$
OUTPUTS :
    Q0,NQ0,Q1,NQ1,Q2,NQ2,Q3,NQ3,Q4,NQ4,Q5,NQ5,Q6,NQ6,Q7,NQ7
$
DESCRIPTION : MODULE FOR TCNT8 $
LEVEL : FUNCTION $
USE :
    YFD2 /// MASTER
$
DEFINE :
    YFD2T5( Q5,NQ5 ) = YFD2 ( NQ5,NQ4,CLRN ) $
    YFD2T4( Q4,NQ4 ) = YFD2 ( NQ4,NQ3,CLRN ) $
    YFD2T3( Q3,NQ3 ) = YFD2 ( NQ3,NQ2,CLRN ) $
    YFD2T2( Q2,NQ2 ) = YFD2 ( NQ2,NQ1,CLRN ) $
    YFD2T1( Q1,NQ1 ) = YFD2 ( NQ1,NQ0,CLRN ) $
    YFD2T0( Q0,NQ0 ) = YFD2 ( NQ0,CL,CLRN ) $
    YFD2T6( Q6,NQ6 ) = YFD2 ( NQ6,NQ5,CLRN ) $
    YFD2T7( Q7,NQ7 ) = YFD2 ( NQ7,NQ6,CLRN ) $
END : MODULE $
MODULE : SKEWCOMP/// $
INPUTS :
    EPLTEN,STDCLK,S2,S1,S0,D
$
OUTPUTS :
    QN,Q
$
DESCRIPTION : MODULE FOR SKEWCOMP $
LEVEL : FUNCTION $
USE :
    IVP /// MASTER

```

```
,MUX21LP /// MASTER
,YFD1 /// MASTER
,MUX81 /// MASTER
```

```
$
```

```
DEFINE :
```

```
NEG1( Q ) = IVP ( QN ) $
RB373( QN ) = MUX21LP ( D,QD,EPLTEN ) $
FFF8( SKEW6, ) = YFD1 ( SKEW5,STDCLK ) $
FFF7( SKEW5, ) = YFD1 ( SKEW4,STDCLK ) $
FFF6( SKEW4, ) = YFD1 ( SKEW3,STDCLK ) $
FFF5( SKEW3, ) = YFD1 ( SKEW2,STDCLK ) $
FFF4( SKEW2, ) = YFD1 ( SKEW1,STDCLK ) $
FFF3( SKEW1, ) = YFD1 ( SKEW99,STDCLK ) $
FFF2( SKEW99, ) = YFD1 ( D,STDCLK ) $
FFF1( QD, ) = YFD1 ( QI,STDCLK ) $
RB372( QI ) = MUX81 ( SKEW1,SKEW2,SKEW3,SKEW4,SKEW5,SKEW6
,SKEW6,SKEW6,S0,S1,S2 ) $
```

```
END : MODULE $
```

```
MODULE : SKEWCMPC/// $
```

```
INPUTS :
```

```
STDCLK,S2,S1,S0,D
```

```
$
```

```
OUTPUTS :
```

```
CLN,Q
```

```
$
```

```
DESCRIPTION : MODULE FOR SKEWCMPC $
```

```
LEVEL : FUNCTION $
```

```
USE :
```

```
ND2 /// MASTER
```

```
,YFD1 /// MASTER
```

```
,FD1P /// MASTER
```

```
,MUX81 /// MASTER
```

```
$
```

```
DEFINE :
```

```
RB750( CLN ) = ND2 ( QI,QN ) $
FFF8( SKEW6, ) = YFD1 ( SKEW5,STDCLK ) $
FFF7( SKEW5, ) = YFD1 ( SKEW4,STDCLK ) $
FFF6( SKEW4, ) = YFD1 ( SKEW3,STDCLK ) $
FFF5( SKEW3, ) = YFD1 ( SKEW2,STDCLK ) $
FFF4( SKEW2, ) = YFD1 ( SKEW1,STDCLK ) $
FFF3( SKEW1, ) = YFD1 ( SKEW99,STDCLK ) $
FFF2( SKEW99, ) = YFD1 ( D,STDCLK ) $
FFF1( Q,QN ) = FD1P ( QI,STDCLK ) $
RB372( QI ) = MUX81 ( SKEW1,SKEW2,SKEW3,SKEW4,SKEW5,SKEW6
,SKEW6,SKEW6,S0,S1,S2 ) $
```

```
END : MODULE $
```

```
MODULE : SEL832/// $
```

```
INPUTS :
```

```
A0,A1,A2,A3,A4,A5,A6,A7,B0,B1,B2,B3,B4A,B5,B6,B7,C0,C1,C2,C3
,C4,C5,C6,C7,D0,D1,D2,D3,D4,D5,D6,D7,S0,S1
```

```
$
```

```
OUTPUTS :
```

```
Y0,Y1,Y2,Y3,Y4,Y5,Y6,Y7
```

```
$
```

```
DESCRIPTION : MODULE FOR SEL832 $
```

```
LEVEL : FUNCTION $
```

```
USE :
```

```
MUX41P /// MASTER
```

```
$
```

```

DEFINE :
    U0( Y0 ) = MUX41P ( A0,B0,C0,D0,S0,S1
    ) $
    U1( Y1 ) = MUX41P ( A1,B1,C1,D1,S0,S1
    ) $
    U2( Y2 ) = MUX41P ( A2,B2,C2,D2,S0,S1
    ) $
    U3( Y3 ) = MUX41P ( A3,B3,C3,D3,S0,S1
    ) $
    U4( Y4 ) = MUX41P ( A4,B4A,C4,D4,S0,S1
    ) $
    U5( Y5 ) = MUX41P ( A5,B5,C5,D5,S0,S1
    ) $
    U6( Y6 ) = MUX41P ( A6,B6,C6,D6,S0,S1
    ) $
    U7( Y7 ) = MUX41P ( A7,B7,C7,D7,S0,S1
    ) $
END : MODULE $
MODULE : SEL714/// $
INPUTS :
    A0,A1,A2,A3,A4,A5,B0,B1,B2,B3,B4A,B5,A6,B6,S
$
OUTPUTS :
    Y0,Y1,Y2,Y3,Y4,Y5,Y6
$
DESCRIPTION : MODULE FOR SEL714 $
LEVEL : FUNCTION $
USE :
    IVAP /// MASTER
    ,YMUX24LP /// MASTER
    ,MUX21LP /// MASTER
$
DEFINE :
    RB576( Y6 ) = IVAP ( Y6I ) $
    RB575( Y5 ) = IVAP ( Y5I ) $
    RB574( Y4 ) = IVAP ( Y4I ) $
    RB573( Y3 ) = IVAP ( Y3I ) $
    RB572( Y2 ) = IVAP ( Y2I ) $
    RB571( Y1 ) = IVAP ( Y1I ) $
    RB570( Y0 ) = IVAP ( Y0I ) $
    RB398( Y0I,Y1I,Y2I,Y3I ) = YMUX24LP ( A0,B0,A1
    ,B1,A2,B2,A3,B3,S ) $
    RB399( Y4I ) = MUX21LP ( A4,B4A,S ) $
    RB400( Y5I ) = MUX21LP ( A5,B5,S ) $
    RB401( Y6I ) = MUX21LP ( A6,B6,S ) $
END : MODULE $
MODULE : SEL612/// $
INPUTS :
    A0,A1,A2,A3,A4,A5,B0,B1,B2,B3,B4A,B5,S
$
OUTPUTS :
    Y0,Y1,Y2,Y3,Y4,Y5
$
DESCRIPTION : MODULE FOR SEL612 $
LEVEL : FUNCTION $
USE :
    IVAP /// MASTER
    ,YMUX24LP /// MASTER
    ,MUX21LP /// MASTER
$

```



```

DEFINE :
    RB582( Y5 ) = IVAP ( Y5I ) $
    RB581( Y4 ) = IVAP ( Y4I ) $
    RB577( Y3 ) = IVAP ( Y3I ) $
    RB569( Y2 ) = IVAP ( Y2I ) $
    RB563( Y1 ) = IVAP ( Y1I ) $
    RB558( Y0 ) = IVAP ( Y0I ) $
    RB398( Y0I,Y1I,Y2I,Y3I ) = YMUX24LP ( A0,B0,A1
        ,B1,A2,B2,A3,B3,S ) $
    RB399( Y4I ) = MUX21LP ( A4,B4A,S ) $
    RB400( Y5I ) = MUX21LP ( A5,B5,S ) $
END : MODULE $
MODULE : SEL510/// $
INPUTS :
    A0,A1,A2,A3,A4,B0,B1,B2,B3,B4A,S
$
OUTPUTS :
    Y0,Y1,Y2,Y3,Y4
$
DESCRIPTION : MODULE FOR SEL510 $
LEVEL : FUNCTION $
USE :
    IVAP /// MASTER
    ,YMUX24LP /// MASTER
    ,MUX21LP /// MASTER
$
DEFINE :
    RB568( Y4 ) = IVAP ( Y4I ) $
    RB567( Y3 ) = IVAP ( Y3I ) $
    RB566( Y2 ) = IVAP ( Y2I ) $
    RB565( Y1 ) = IVAP ( Y1I ) $
    RB564( Y0 ) = IVAP ( Y0I ) $
    RB398( Y0I,Y1I,Y2I,Y3I ) = YMUX24LP ( A0,B0,A1
        ,B1,A2,B2,A3,B3,S ) $
    RB399( Y4I ) = MUX21LP ( A4,B4A,S ) $
END : MODULE $
MODULE : SEL48/// $
INPUTS :
    A0,A1,A2,A3,B0,B1,B2,B3,S
$
OUTPUTS :
    Y0,Y1,Y2,Y3
$
DESCRIPTION : MODULE FOR SEL48 $
LEVEL : FUNCTION $
USE :
    IVAP /// MASTER
    ,YMUX24LP /// MASTER
$
DEFINE :
    RB562( Y3 ) = IVAP ( Y3I ) $
    RB561( Y2 ) = IVAP ( Y2I ) $
    RB560( Y1 ) = IVAP ( Y1I ) $
    RB559( Y0 ) = IVAP ( Y0I ) $
    RB398( Y0I,Y1I,Y2I,Y3I ) = YMUX24LP ( A0,B0,A1
        ,B1,A2,B2,A3,B3,S ) $
END : MODULE $
MODULE : SEL416/// $
INPUTS :
    A0,A1,A2,A3,B0,B1,B2,B3,C0,C1,C2,C3,D0,D1,D2,D3,S0,S1

```

```

$
OUTPUTS :
    Y0,Y1,Y2,Y3
$
DESCRIPTION : MODULE FOR SEL416 $
LEVEL : FUNCTION $
USE :
    MUX41P /// MASTER
$
DEFINE :
    U0( Y0 ) = MUX41P (  A0,B0,C0,D0,S0,S1
    ) $
    U1( Y1 ) = MUX41P (  A1,B1,C1,D1,S0,S1
    ) $
    U2( Y2 ) = MUX41P (  A2,B2,C2,D2,S0,S1
    ) $
    U3( Y3 ) = MUX41P (  A3,B3,C3,D3,S0,S1
    ) $
END : MODULE $
MODULE :  SEL1632/// $
INPUTS :
    A0,A1,A2,A3,A4,A5,A6,A7,A8,A9,A10,A11,A12,A13,A14,A15,B0,B1,B2
    ,B3,B4A,B5,B6,B7,B8A,B9,B10,B11,B12A,B13,B14,B15,S
$
OUTPUTS :
    Y15,Y14,Y13,Y12,Y11,Y10,Y9,Y8,Y7,Y6,Y5,Y4,Y3,Y2,Y1,Y0
$
DESCRIPTION : MODULE FOR SEL1632 $
LEVEL : FUNCTION $
USE :
    SEL816 ///
$
DEFINE :
    RB398( Y8,Y9,Y10,Y11,Y12,Y13,Y14
    ,Y15 ) = SEL816 (  A8,A9,A10,A11,A12,A13
    ,A14,A15,B8A,B9,B10,B11,B12A
    ,B13,B14,B15,S ) $
    RB399( Y0,Y1,Y2,Y3,Y4,Y5,Y6
    ,Y7 ) = SEL816 (  A0,A1,A2,A3,A4,A5
    ,A6,A7,B0,B1,B2,B3,B4A
    ,B5,B6,B7,S ) $
END : MODULE $
MODULE :  SEL1020/// $
INPUTS :
    A0,A1,A2,A3,A4,A5,A6,A7,A8,A9,B0,B1,B2,B3,B4A,B5,B6,B7,B8A,B9
    ,S
$
OUTPUTS :
    Y0,Y1,Y2,Y3,Y4,Y5,Y6,Y7,Y8,Y9
$
DESCRIPTION : MODULE FOR SEL1020 $
LEVEL : FUNCTION $
USE :
    SEL816 ///
    ,MUX21HP /// MASTER
$
DEFINE :
    RB398( Y0,Y1,Y2,Y3,Y4,Y5,Y6
    ,Y7 ) = SEL816 (  A0,A1,A2,A3,A4,A5

```

```

    ,A6,A7,B0,B1,B2,B3,B4A
    ,B5,B6,B7,S ) $
RB399( Y8 ) = MUX21HP ( A8,B8A,S ) $
RB400( Y9 ) = MUX21HP ( A9,B9,S ) $
END : MODULE $
MODULE : NEQL8/// $
INPUTS :
    A0,A1,A2,A3,A4,A5,A6,A7,B0,B1,B2,B3,B4A,B5,B6,B7
$
OUTPUTS :
    NEQ
$
DESCRIPTION : MODULE FOR NEQL8 $
LEVEL : FUNCTION $
USE :
    EO /// MASTER
    ,EN /// MASTER
    ,ND5 /// MASTER
    ,NR4 /// MASTER
$
DEFINE :
    BIT0( C0 ) = EO ( A0,B0 ) $
    BIT1( C1 ) = EO ( A1,B1 ) $
    BIT2( C2 ) = EO ( A2,B2 ) $
    BIT3( C3 ) = EO ( A3,B3 ) $
    RB398( C4 ) = EN ( A4,B4A ) $
    RB399( C5 ) = EN ( A5,B5 ) $
    RB400( C6 ) = EN ( A6,B6 ) $
    RB401( C7 ) = EN ( A7,B7 ) $
    RB402( NEQ ) = ND5 ( EQ03N,C4,C5,C6,C7 ) $
    RB403( EQ03N ) = NR4 ( C0,C1,C2,C3 ) $
END : MODULE $
MODULE : NEQL6/// $
INPUTS :
    A0,A1,A2,A3,A4,A5,B0,B1,B2,B3,B4A,B5
$
OUTPUTS :
    NEQ
$
DESCRIPTION : MODULE FOR NEQL6 $
LEVEL : FUNCTION $
USE :
    EN /// MASTER
    ,ND6 /// MASTER
$
DEFINE :
    U1( UN000 ) = EN ( A0,B0 ) $
    U2( UN001 ) = EN ( A1,B1 ) $
    U3( UN002 ) = EN ( A2,B2 ) $
    U4( UN003 ) = EN ( A3,B3 ) $
    U5( UN004 ) = EN ( A4,B4A ) $
    U6( UN005 ) = EN ( A5,B5 ) $
    U7( NEQ ) = ND6 ( UN000,UN001,UN002,UN003,UN004,UN005
    ) $
END : MODULE $
MODULE : LDCNT16/// $
INPUTS :
    D0,D1,D2,D3,D4,D5,D6,D7,D8,D9,D10,D11,D12,D13,D14,D15,LOAD,CLK
$

```

```

OUTPUTS :
    Q0,Q1,Q2,Q3,Q4,Q5,Q6,Q7,Q8,Q9,Q10,Q11,Q12,Q13,Q14,Q15
$
DESCRIPTION : MODULE FOR LDCNT16 $
LEVEL : FUNCTION $
USE :
    LDCNT10 ///
    ,FJK1S /// MASTER
    ,NR2 /// MASTER
    ,ND2 /// MASTER
    ,IV /// MASTER

```

```

$
DEFINE :
    U1( Q0,Q1,Q2,Q3,Q4,Q5,Q6
        ,Q7,Q8,Q9,U1Q8N,U1U12Z ) = LDCNT10 ( D0,D1
        ,D2,D3,D4,D5,D6,D7,D8
        ,D9,LOAD,CLK ) $
    U3( Q10, ) = FJK1S ( U2Z,U2Z,CLK,D10,LOAD
        ) $
    U6( Q11,U6QN ) = FJK1S ( U5Z,U5Z,CLK,D11,LOAD
        ) $
    U8( Q12, ) = FJK1S ( U7Z,U7Z,CLK,D12,LOAD
        ) $
    U11( Q13,U11QN ) = FJK1S ( U10Z,U10Z,CLK,D13,LOAD
        ) $
    U13( Q14, ) = FJK1S ( U12Z,U12Z,CLK,D14,LOAD
        ) $
    U16( Q15, ) = FJK1S ( U15Z,U15Z,CLK,D15,LOAD
        ) $
    U2( U2Z ) = NR2 ( U1Q8N,U1U12Z ) $
    U7( U7Z ) = NR2 ( U6QN,U4Z ) $
    U12( U12Z ) = NR2 ( U11QN,U9Z ) $
    U9( U9Z ) = ND2 ( Q12,U7Z ) $
    U4( U4Z ) = ND2 ( Q10,U2Z ) $
    U5( U5Z ) = IV ( U4Z ) $
    U10( U10Z ) = IV ( U9Z ) $
    U14( U14Z ) = ND2 ( Q14,U12Z ) $
    U15( U15Z ) = IV ( U14Z ) $

```

```

END : MODULE $
MODULE : LDCLCNT7/// $
INPUTS :
    D0,D1,D2,D3,D4,D5,D6,LOAD,CLK,CL

```

```

$
OUTPUTS :
    Q0,Q1,Q2,Q3,Q4,Q5,Q6
$

```

```

DESCRIPTION : MODULE FOR LDCLCNT7 $
LEVEL : FUNCTION $
USE :
    LDCLCNT5 ///
    ,FJK2S /// MASTER
    ,ND2 /// MASTER
    ,IV /// MASTER
    ,NR2 /// MASTER

```

```

$
DEFINE :
    RB398( Q0,Q1,Q2,Q3,Q4,U1Z ) = LDCLCNT5 ( D0
        ,D1,D2,D3,D4,LOAD,CLK,CL
        ) $
    RB399( Q5,U4N ) = FJK2S ( U3Z,U3Z,CLK,CL,D5

```

```

    ,LOAD ) $
RB400( Q6, ) = FJK2S ( U5Z,U5Z,CLK,CL,D6
    ,LOAD ) $
U2( U2Z ) = ND2 ( Q4,U1Z ) $
U3( U3Z ) = IV ( U2Z ) $
U5( U5Z ) = NR2 ( U2Z,U4N ) $
END : MODULE $
MODULE : LDCLCNT4/// $
INPUTS :
    D0,D1,D2,D3,LOAD,CLK,CL
$
OUTPUTS :
    Q0,Q1,Q2,Q3
$
DESCRIPTION : MODULE FOR LDCLCNT4 $
LEVEL : FUNCTION $
USE :
    FJK2S /// MASTER
    ,NR2 /// MASTER
    ,ND2 /// MASTER
    ,IV /// MASTER
    ,FD2S /// MASTER
$
DEFINE :
    RB398( Q1,U2QN ) = FJK2S ( Q0,Q0,CLK,CL,D1
        ,LOAD ) $
    RB399( Q2, ) = FJK2S ( U3Z,U3Z,CLK,CL,D2
        ,LOAD ) $
    RB400( Q3, ) = FJK2S ( U6Z,U6Z,CLK,CL,D3
        ,LOAD ) $
    U3( U3Z ) = NR2 ( U2QN,U1QN ) $
    U5( U5Z ) = ND2 ( Q2,U3Z ) $
    U6( U6Z ) = IV ( U5Z ) $
    RB401( Q0,U1QN ) = FD2S ( U1QN,CLK,CL,D0,LOAD
        ) $
END : MODULE $
MODULE : LDCLCNTA/// $
INPUTS :
    D0,D1,D2,D3,D4,D5,D6,D7,D8,D9,LOAD,CLK,CL
$
OUTPUTS :
    Q0,Q1,Q2,Q3,Q4,Q5,Q6,Q7,Q8,Q9,Q9N,U12Z
$
DESCRIPTION : MODULE FOR LDCLCNTA $
LEVEL : FUNCTION $
USE :
    LDCLCNT5 ///
    ,FJK2S /// MASTER
    ,ND2 /// MASTER
    ,IV /// MASTER
    ,NR2 /// MASTER
$
DEFINE :
    RB398( Q0,Q1,Q2,Q3,Q4,U1Z ) = LDCLCNT5 ( D0
        ,D1,D2,D3,D4,LOAD,CLK,CL
        ) $
    RB399( Q5,U4N ) = FJK2S ( U3Z,U3Z,CLK,CL,D5
        ,LOAD ) $
    RB400( Q6, ) = FJK2S ( U5Z,U5Z,CLK,CL,D6
        ,LOAD ) $

```

```

RB401( Q7,U9Z ) = FJK2S ( U8Z,U8Z,CLK,CL,D7
,LOAD ) $
RB402( Q8, ) = FJK2S ( U10Z,U10Z,CLK,CL,D8
,LOAD ) $
RB403( Q9,Q9N ) = FJK2S ( U13Z,U13Z,CLK,CL,D9
,LOAD ) $
U2( U2Z ) = ND2 ( Q4,U1Z ) $
U3( U3Z ) = IV ( U2Z ) $
U5( U5Z ) = NR2 ( U2Z,U4N ) $
U7( U7Z ) = ND2 ( Q6,U5Z ) $
U8( U8Z ) = IV ( U7Z ) $
U10( U10Z ) = NR2 ( U7Z,U9Z ) $
U12( U12Z ) = ND2 ( Q8,U10Z ) $
U13( U13Z ) = IV ( U12Z ) $
END : MODULE $
MODULE : LATCH8M/// $
INPUTS :
D0,D1,D2,D4,D5,D6,D7,CLK,D3
$
OUTPUTS :
Q0,Q1,Q2,Q3,Q4,Q5,Q6,Q7
$
DESCRIPTION : MODULE FOR LATCH8M $
LEVEL : FUNCTION $
USE :
YLD24B /// MASTER
$
DEFINE :
RB398( Q0,,Q1,,Q2,,Q3
, ) = YLD24B ( D0,D1,D2,D3,CLK ) $
RB399( Q4,,Q5,,Q6,,Q7
, ) = YLD24B ( D4,D5,D6,D7,CLK ) $
END : MODULE $
MODULE : HADD4/// $
INPUTS :
A0,A1,A2,A3,B0
$
OUTPUTS :
S0,S1,S2,S3,COUT
$
DESCRIPTION : MODULE FOR HADD4 $
LEVEL : FUNCTION $
USE :
HA1 /// MASTER
$
DEFINE :
U1( S0,UN000 ) = HA1 ( B0,A0 ) $
U2( S1,UN001 ) = HA1 ( UN000,A1 ) $
U3( S2,UN002 ) = HA1 ( UN001,A2 ) $
U4( S3,COUT ) = HA1 ( UN002,A3 ) $
END : MODULE $
MODULE : FRCCONT/// $
INPUTS :
CF4,AR10D6,CF3,N3FRCPAT,NT127,NT126,FRC0,FRC1,PWM0,PWM1,DITHER2
,DITHER1,DITHER0,PT11110,PT11101,PT11100,PT11011,PT11010,PT11001
,PT11000,PT10110,PT10101,PT10100,PT10011,PT10010,PT10001,PT10000
,PTBB111,PT01110,PT01101,PT01100,PT01011,PT01010,PT01001,PT01000
,PTAA111,PT00110,PT00101,PT00100,PT00011,PT00010,PT00001,PT00000
,CDATA5,CDATA4,CDATA3,CDATA2,CDATA1,CDATA0,FRCLC0,FRCDC0,DOTCLK
,SSS

```

\$
OUTPUTS :
 PWMOUT3,PWMOUT2,PWMOUT1,PWMOUT0,FRCOUT

\$
DESCRIPTION : MODULE FOR FRCCONT \$
LEVEL : FUNCTION \$
USE :

 NR4 /// MASTER
 ,ND2P /// MASTER
 ,NR2 /// MASTER
 ,FD1S /// MASTER
 ,ND2 /// MASTER
 ,MUX21HP /// MASTER
 ,ND6P /// MASTER
 ,A06 /// MASTER
 ,IV /// MASTER
 ,AN2P /// MASTER
 ,ND3 /// MASTER
 ,A02 /// MASTER
 ,AN2 /// MASTER
 ,ND4 /// MASTER
 ,NR3P /// MASTER
 ,NR2P /// MASTER
 ,AN4 /// MASTER
 ,ND3P /// MASTER
 ,ND4P /// MASTER
 ,MUX41P /// MASTER
 ,B3IP /// MASTER
 ,IVP /// MASTER
 ,MUX81P /// MASTER
 ,DF4P ///
 ,YFD1 /// MASTER
 ,ND6 /// MASTER
 ,SUB4M ///

\$
DEFINE :
 RB734(N0FRCPWM) = NR4 (FRC0,FRC1,PWM0,PWM1) \$
 RB733(BOIB5) = ND2P (CDATA5,N0FRCPWM) \$
 RB732(BOIA5) = ND2P (CDATA4,N0FRCPWM) \$
 RB731(NT123) = NR2 (CC000XXX,BOIN) \$
 RB730(N0FRCPAT,) = FD1S (CDATA5,DOTCLK,NT123,DITHEREN) \$
 RB729(N0F11N) = ND2 (N0FRCPWM,N0FRCPAT) \$
 RB728(N4FRCPAT) = MUX21HP (NT126,NT127,FRCIN3) \$
 RB727(BOIA4) = ND2P (CDATA3,N3FRC) \$
 RB726(BOIA3) = ND2P (CDATA2,N4FRCPWM) \$
 RB725(BOIA2) = ND2P (CDATA1,N8PWM) \$
 RB724(BOIA1) = ND2P (CDATA0,NT124) \$
 RB723(BOINSA) = ND6P (DITHEREN,BOIA1,BOIA2,BOIA3,BOIA4,BOIA5
) \$
 RB722(BOIB4) = ND2P (CDATA4,N3FRC) \$
 RB721(BOIB3) = ND2P (CDATA3,N4FRCPWM) \$
 RB720(BOIB2) = ND2P (CDATA2,N8PWM) \$
 RB719(BOIB1) = ND2P (CDATA1,NT124) \$
 RB715(DITENN) = A06 (CF3,AR10D6,CF4) \$
 RB714(DITHEREN) = IV (DITENN) \$
 RB713(BOINSB) = ND6P (DITHEREN,BOIB1,BOIB2,BOIB3,BOIB4,BOIB5
) \$
 RB712(SUBD0) = AN2P (CDATA2,NT124) \$
 RB711(SUBD1I) = NR2 (N4FRCPWM,N3FRC) \$
 RB710(SUBD1) = AN2P (CDATA3,SUBD1I) \$
 RB709(CDATA5N) = IV (CDATA5) \$

```

RB708( SUBD2 ) = MUX21HP ( CDATA4,CDATA5N,N3FRC ) $
RB707( CC00XXXX ) = NR2 ( CDATA5,CDATA4 ) $
RB706( N0DIV3I ) = ND3 ( N3FRC,CC000XXX,CDATA2N ) $
RB705( N0DIV4I ) = ND2 ( N4FRCPWM,CC00XXXX ) $
RB704( N4FRCPWM ) = IV ( N4FPN ) $
RB703( N4FPN ) = A02 ( PWM1N,PWM0,FRC1N,FRC0 ) $
RB702( NT124 ) = IV ( N16FPN ) $
RB701( N16FPN ) = A02 ( PWM1,PWM0N,FRC1,FRC0N ) $
RB700( N3FRC ) = AN2 ( FRC1,FRC0 ) $
RB699( FRC0N ) = IV ( FRC0 ) $
RB698( FRC1N ) = IV ( FRC1 ) $
RB697( PWM0N ) = IV ( PWM0 ) $
RB696( PWM1N ) = IV ( PWM1 ) $
RB695( N8PWM ) = AN2 ( PWM1,PWM0 ) $
RB694( N4F11N ) = ND4 ( N4FRCPWM,FRCIN3,FRCIN2,BOINN ) $
RB693( N3F11N ) = ND2 ( N3FRC,FRCIN3 ) $
RB692( NT119 ) = NR3P ( NT124,FRCIN3,FRCIN2 ) $
RB691( N0DIVHN ) = NR2P ( NT119,NT120 ) $
RB690( AF11N ) = AN4 ( F1111N,N3F11N,N4F11N,N0F11N ) $
RB689( N3FDATN ) = ND3P ( N3FRC,N3FRCPAT,N0DIVHN ) $
RB688( N4FDATN ) = ND3P ( N4FRCPWM,N4FRCPAT,N0DIVHN ) $
RB687( N16FDATN ) = ND3P ( NT124,UN017,N0DIVHN ) $
RB686( FRCOUT ) = ND4P ( N16FDATN,N4FDATN,N3FDATN,AF11N ) $
RB685( BOIN ) = MUX41P ( DITHER0,DITHER1,DITHER2,SSS,BOINSA,BOINSB
) $
RB537( N0DIV16I ) = ND4 ( NT121,NT122,N0DIV4I,N0DIV3I ) $
RB536( NT122 ) = ND4 ( CC000XXX,CDATA2,BOIN,NT124 ) $
RB535( NT121 ) = ND3 ( CC000XXX,CDATA2N,NT124 ) $
RB534( CDATA2N ) = IV ( CDATA2 ) $
RB533( ,UN035 ) = B3IP ( FRCIN0 ) $
RB532( UN070 ) = ND3P ( UN70I1,UN70I2,UN70I3 ) $
RB531( UN70I3 ) = ND3P ( FRCIN3,FRCIN1N,FRCIN0N ) $
RB530( UN70I2 ) = ND2P ( FRCIN3N,FRCIN1 ) $
RB529( UN70I1 ) = ND3P ( FRCIN3,FRCIN1,FRCIN0 ) $
RB528( UN036 ) = ND3P ( UN36I2,UN36I3,UN36I4 ) $
RB527( UN36I4 ) = ND3P ( FRCIN3,FRCIN2N,FRCIN0N ) $
RB526( UN36I3 ) = ND3P ( FRCIN3,FRCIN2N,FRCIN1N ) $
RB525( UN36I2 ) = ND2P ( FRCIN3N,FRCIN2 ) $
RB524( UN000N ) = IVP ( UN000 ) $
RB523( UN037N ) = IVP ( UN037 ) $
RB522( UN005N ) = IVP ( UN005 ) $
RB521( UN006N ) = IVP ( UN006 ) $
RB520( UN017 ) = MUX81P ( UN006N,UN005N,UN037N,UN000N,UN006,UN005
,UN037,UN000,FRCDC0,FRCLC0,FRCIN3 ) $
RB519( FRCIN0,FRCIN1,FRCIN2,FRCIN3,FRCIN0N,FRCIN1N,FRCIN2N
,FRCIN3N ) = DFF4P ( FRCIN0I,FRCIN1I,FRCIN2I,FRCIN3I,DOTCLK ) $
RB517( ,BOINN ) = YFD1 ( BOIN,DOTCLK ) $
RB516( NT120, ) = YFD1 ( N0DIV16I,DOTCLK ) $
RB514( PWMOUT3 ) = AN2P ( FRCIN3,N0DIVHN ) $
RB513( PWMOUT2 ) = AN2P ( FRCIN2,N0DIVHN ) $
RB512( PWMOUT1 ) = AN2P ( FRCIN1,N0DIVHN ) $
RB511( PWMOUT0 ) = AN2P ( FRCIN0,N0DIVHN ) $
RB510( F1111N ) = ND6 ( FRCIN3,FRCIN2,FRCIN1,FRCIN0,BOINN,NT124
) $
RB509( FRCIN3I,FRCIN2I,FRCIN1I,FRCIN0I ) = SUB4M ( CDATA5
,SUBD2,SUBD1
,SUBD0,BOIN ) $
RB515( CC000XXX ) = NR3P ( CDATA5,CDATA4,CDATA3 ) $
RB412( UN006 ) = MUX81P ( PT00000,PT00001,PT00010,PT00011
,PT00100,PT00101
,PT00110,PTBB111,UN035,UN070,UN036 ) $
RB413( UN005 ) = MUX81P ( PT01000,PT01001,PT01010,PT01011

```



```

    ,PT01100,PT01101
    ,PT01110,PTAA111,UN035,UN070,UN036 ) $
RB426( UN037 ) = MUX81P ( PT10000,PT10001,PT10010,PT10011
    ,PT10100,PT10101
    ,PT10110,PTAA111,UN035,UN070,UN036 ) $
RB433( UN000 ) = MUX81P ( PT11000,PT11001,PT11010,PT11011
    ,PT11100,PT11101
    ,PT11110,PTBB111,UN035,UN070,UN036 ) $
END : MODULE $
MODULE :   FPATGEN/// $
INPUTS   :
    FRC0,CF2,CF1,CF0,PRIMN3,PRIMN2,PRIMN1,PRIMN0,PRIMM3,PRIMM2,PRIMM1
    ,PRIMM0,SSS,VSYNC,NRESET,LC0IN,NRCNCLK,DOTCLK
$
OUTPUTS  :
    N3FRCPAT,NT127,NT126,PT11110,PT11101,PT11100,PT11011,PT11010
    ,PT11001,PT11000,PT10110,PT10101,PT10100,PT10011,PT10010,PT10001
    ,PT10000,PTBB111A,PT01110,PT01101,PT01100,PT01011,PT01010,PT01001
    ,PT01000,PTAA111A,PT00110,PT00101,PT00100,PT00011,PT00010,PT00001
    ,PT00000,FRDC0,FRCLC0,DITHER2,DITHER1,DITHER0
$
DESCRIPTION : MODULE FOR FPATGEN $
LEVEL   : FUNCTION $
USE     :
    FD1P /// MASTER
    ,OR2 /// MASTER
    ,YMUX24H /// MASTER
    ,IV /// MASTER
    ,NR2 /// MASTER
    ,YFD2 /// MASTER
    ,MUX41P /// MASTER
    ,OR2P /// MASTER
    ,FD1S /// MASTER
    ,DCNT4 ///
    ,DFFS4 ///
    ,DFF4P ///
    ,EO /// MASTER
    ,NR2P /// MASTER
    ,ENP /// MASTER
    ,FD2P /// MASTER
    ,B3IP /// MASTER
    ,B2IP /// MASTER
    ,NR3P /// MASTER
    ,NR4P /// MASTER
    ,NR5P /// MASTER
    ,NR6P /// MASTER
    ,NR8 /// MASTER
    ,IVP /// MASTER
    ,YFD1 /// MASTER
    ,ND2 /// MASTER
    ,ND5 /// MASTER
    ,AN4 /// MASTER
    ,AN2P /// MASTER
    ,SCNT5M ///
    ,SCNT4M ///
    ,ADD4T ///
    ,D24L /// MASTER
    ,YD24GH /// MASTER
$
DEFINE :
    RB681( PTAA111A,PTBB111A ) = FD1P ( LFC0,DOTCLK ) $

```

```

RB680( Q13QD ) = OR2 ( Q11NQ,Q13Q ) $
RB679( LFCI0,LFCI1,LFCI2,LFCI3 ) = YMUX24H ( ICNT0,LADD40,ICNT1
, LADD41,ICNT2,LADD42,ICNT3,LADD43,CCNCLR ) $
RB678( G130 ) = IV ( G60 ) $
RB734( F10N ) = NR2 ( F0,F1 ) $
RB733( F2, ) = YFD2 ( F1,VSYNCR,NRESET ) $
RB732( F1, ) = YFD2 ( F0,VSYNCR,NRESET ) $
RB731( F0, ) = YFD2 ( F10N,VSYNCR,NRESET ) $
RB730( CF2FRC0 ) = OR2 ( CF2,FRC0 ) $
RB728( N3FRCPAT ) = MUX41P ( PTBB111,PTAA111,PTAA111,PTBB111
,FRCDC0,FRCLC0
) $
RB727( N4FP12 ) = OR2 ( F1,F2 ) $
RB726( N4FP02 ) = OR2 ( F0,F2 ) $
RB725( N4FP01 ) = OR2 ( F0,F1 ) $
RB724( NT127 ) = MUX41P ( N4FP01,N4FP02,N4FP02,N4FP12,FRCDC0
,FRCLC0
) $
RB723( NT126 ) = MUX41P ( F2,F1,F1,F0,FRCDC0,FRCLC0
) $
RB719( DITHER0 ) = OR2P ( LC0,DC0IN ) $
RB718( FRCLC0ID, ) = FD1S ( INDEX0,DOTCLK,LC0,CF2FRC0 ) $
RB717( FRCDC0ID, ) = FD1S ( INDEX1,DOTCLK,DC0IN,CF2FRC0 ) $
RB716( ,, ,PTAA111,FRMC3,FRMC2,FRMC1
,PTBB111 ) = DCNT4 ( NRESET,VSYNCR ) $
RB715( LFC3,LFC2,LFC1,LFC0 ) = DFFS4 ( DOTCLK,G20,LFCI3
,LFCI2,LFCI1,LFCI0,LFC3,LFC2,LFC1,LFC0
) $
RB714( ICNT3,ICNT2,ICNT1,ICNT0 ) = DFFS4 ( ICNCLK,RCNCLR,FRMC3
,FRMC2,FRMC1,PTBB111,IADD43,IADD42,IADD41,IADD40
) $
RB713( FT13,FT14,FT15,FT16,,,
, ) = DFF4P ( AFT13,AFT14,AFT15,AFT16,DOTCLK ) $
RB712( FT09,FT10,FT11,FT12,,,
, ) = DFF4P ( AFT09,AFT10,AFT11,AFT12,DOTCLK ) $
RB711( FT05,FT06,FT07,FT08,,,
, ) = DFF4P ( AFT05,AFT06,AFT07,AFT08,DOTCLK ) $
RB710( FT01,FT02,FT03,FT04,,,
, ) = DFF4P ( AFT01,AFT02,AFT03,AFT04,DOTCLK ) $
RB707( LC0, ) = FD1P ( LC0IN,DOTCLK ) $
RB706( INDEX1ND ) = EO ( CF0,INDEX1N ) $
RB705( NRCN0D ) = EO ( CF0,NRCN0 ) $
RB702( INDEX0I ) = NR2 ( CF1,NCCN1 ) $
RB684( DITHER2 ) = NR2P ( LC0,DC0IN ) $
RB683( DITHER1 ) = ENP ( LC0,DC0IN ) $
RB682( DC0IN,DC0INN ) = FD2P ( DC0INN,DOTCLK,NRCNCLK ) $
RB518( ,FRCDC0 ) = B3IP ( FRCDC0ID ) $
RB237( ,FRCLC0 ) = B2IP ( FRCLC0ID ) $
RB406( PT00001 ) = NR2P ( FT01,FT09 ) $
RB407( PT00010 ) = NR3P ( FT01,FT06,FT11 ) $
RB408( PT00011 ) = NR4P ( FT01,FT05,FT09,FT13 ) $
RB409( PT00100 ) = NR5P ( FT01,FT05,FT08,FT11,FT14 ) $
RB410( PT00101 ) = NR6P ( FT01,FT03,FT06,FT09,FT11,FT14
) $
RB411( PT00110 ) = NR8 ( FT01,FT03,FT05,FT07,FT10,FT12
,FT14,FT14 ) $
RB414( PT01110 ) = NR8 ( FT02,FT05,FT07,FT09,FT11,FT14
,FT16,FT16 ) $
RB415( PT01101 ) = NR6P ( FT02,FT05,FT07,FT10,FT13,FT15
) $
RB416( PT01100 ) = NR5P ( FT02,FT05,FT09,FT12,FT15 ) $
RB417( PT01011 ) = NR4P ( FT03,FT07,FT11,FT15 ) $

```

```

RB418( PT01010 ) = NR3P ( FT03,FT09,FT14 ) $
RB419( PT01001 ) = NR2P ( FT05,FT13 ) $
RB420( PT10001 ) = NR2P ( FT03,FT11 ) $
RB421( PT10010 ) = NR3P ( FT05,FT10,FT15 ) $
RB422( PT10011 ) = NR4P ( FT02,FT06,FT10,FT14 ) $
RB423( PT10100 ) = NR5P ( FT03,FT06,FT09,FT13,FT16 ) $
RB424( PT10101 ) = NR6P ( FT03,FT05,FT08,FT11,FT13,FT16
) $
RB425( PT10110 ) = NR8 ( FT01,FT03,FT06,FT08,FT10,FT13
,FT15,FT15 ) $
RB427( PT11001 ) = NR2P ( FT07,FT15 ) $
RB428( PT11010 ) = NR3P ( FT02,FT07,FT13 ) $
RB429( PT11011 ) = NR4P ( FT04,FT08,FT12,FT16 ) $
RB430( PT11100 ) = NR5P ( FT01,FT04,FT07,FT10,FT13 ) $
RB431( PT11101 ) = NR6P ( FT01,FT04,FT07,FT09,FT12,FT15
) $
RB432( PT11110 ) = NR8 ( FT02,FT04,FT06,FT09,FT11,FT13
,FT15,FT15 ) $
RB434( PT11000 ) = IVP ( FT13 ) $
RB435( PT10000 ) = IVP ( FT09 ) $
RB436( PT01000 ) = IVP ( FT05 ) $
RB437( PT00000 ) = IVP ( FT01 ) $
RB336( ,Q11NQ ) = YFD2 ( NVSYNC,NRCNCLK,NVSYNC ) $
RB337( Q13Q, ) = YFD1 ( G110,NRCNCLK ) $
RB242( G20 ) = ND2 ( CCNCLR,G30 ) $
RB243( G30 ) = ND2 ( INDEX1,CCN1 ) $
RB244( CCNCLR ) = NR2P ( RCNCLK,G130 ) $
RB245( INDEX0 ) = EO ( INDEX0I,RCN0 ) $
RB246( G60 ) = ND5 ( CCN1,CCN2,CCN3,INDEX1ND,CCN4 ) $
RB247( NDOTCLK ) = IVP ( DOTCLK ) $
G8( NVSYNC ) = IV ( VSYNC ) $
G9( RCNCLR ) = OR2P ( Q11NQ,G100 ) $
G10( G100 ) = AN4 ( RCN1,RCN2,RCN3,NRCN0D ) $
G11( G110 ) = OR2 ( G100,RCN0 ) $
G12( ICNCLK ) = AN2P ( Q13QD,RCNCLK ) $
G14( G140 ) = IV ( CCNCLR ) $
G15( RCNCLK ) = IVP ( NRCNCLK ) $
CCN( INDEX1,CCN1,CCN2,CCN3,CCN4,INDEX1N,NCCN1
,,, ) = SCNT5M ( SSS,SSS,SSS,SSS
,SSS,G140,DOTCLK ) $
RCN( RCN0,RCN1,RCN2,RCN3,NRCN0,,
, ) = SCNT4M ( SSS,SSS,SSS,SSS,RCNCLR,RCNCLK
) $
IADD4( IADD40,IADD41,IADD42,IADD43, ) = ADD4T ( ICNT1,ICNT2
,ICNT3,PRIMN1,PRIMN2,PRIMN3,ICNT0,PRIMN0 ) $
LADD4( LADD40,LADD41,LADD42,LADD43, ) = ADD4T ( LFC1,LFC2
,LFC3,PRIMM1,PRIMM2,PRIMM3,LFC0,PRIMM0 ) $
DC5( EN0,EN1,EN2,EN3A ) = D24L ( LFC2,LFC3 ) $
DC1( AFT01,AFT02,AFT03,AFT04 ) = YD24GH ( LFC0,LFC1,EN0
) $
DC2( AFT05,AFT06,AFT07,AFT08 ) = YD24GH ( LFC0,LFC1,EN1
) $
DC3( AFT09,AFT10,AFT11,AFT12 ) = YD24GH ( LFC0,LFC1,EN2
) $
DC4( AFT13,AFT14,AFT15,AFT16 ) = YD24GH ( LFC0,LFC1,EN3A
) $
END : MODULE $
MODULE : FFD4P/// $
INPUTS :
CL,D0,D1,D2,D3
$
OUTPUTS :

```

Q0,NQ0,Q1,NQ1,Q2,NQ2,Q3,NQ3

\$

DESCRIPTION : MODULE FOR FFD4P \$

LEVEL : FUNCTION \$

USE :

FD1P /// MASTER

\$

DEFINE :

BIT0(Q0,NQ0) = FD1P (D0,CL) \$

BIT1(Q1,NQ1) = FD1P (D1,CL) \$

BIT2(Q2,NQ2) = FD1P (D2,CL) \$

BIT3(Q3,NQ3) = FD1P (D3,CL) \$

END : MODULE \$

MODULE : FFD3P/// \$

INPUTS :

CL,D0,D1,D2

\$

OUTPUTS :

Q0,NQ0,Q1,NQ1,Q2,NQ2

\$

DESCRIPTION : MODULE FOR FFD3P \$

LEVEL : FUNCTION \$

USE :

FD1P /// MASTER

\$

DEFINE :

BIT0(Q0,NQ0) = FD1P (D0,CL) \$

BIT1(Q1,NQ1) = FD1P (D1,CL) \$

BIT2(Q2,NQ2) = FD1P (D2,CL) \$

END : MODULE \$

MODULE : FFDS4P/// \$

INPUTS :

CL,D0,D1,D2,D3,TE,TI0,TI1,TI2

\$

OUTPUTS :

Q0,NQ0,Q1,NQ1,Q2,NQ2,Q3,NQ3

\$

DESCRIPTION : MODULE FOR FFDS4P \$

LEVEL : FUNCTION \$

USE :

FD1SP /// MASTER

,FD1P /// MASTER

\$

DEFINE :

BIT0(Q0,NQ0) = FD1SP (D0,CL,TI0,TE) \$

BIT1(Q1,NQ1) = FD1SP (D1,CL,TI1,TE) \$

BIT2(Q2,NQ2) = FD1SP (D2,CL,TI2,TE) \$

BIT3(Q3,NQ3) = FD1P (D3,CL) \$

END : MODULE \$

MODULE : EQU5/// \$

INPUTS :

A3,A2,A1,A0,A4,B0,B1,B2,B3,B4A

\$

OUTPUTS :

EQ

\$

DESCRIPTION : MODULE FOR EQU5 \$

LEVEL : FUNCTION \$

USE :

```
EO /// MASTER
,NR5 /// MASTER
```

```
$
```

```
DEFINE :
```

```
BIT0( C0 ) = EO ( A0,B0 ) $
BIT1( C1 ) = EO ( A1,B1 ) $
BIT2( C2 ) = EO ( A2,B2 ) $
BIT3( UN000 ) = EO ( A3,B3 ) $
RB398( EQ ) = NR5 ( C0,C1,C2,UN000,UN001 ) $
RB399( UN001 ) = EO ( A4,B4A ) $
```

```
END : MODULE $
```

```
MODULE : EQU4NP/// $
```

```
INPUTS :
```

```
A0,B0,A1,B1,A2,B2,A3,B3,COMPDIS
```

```
$
```

```
OUTPUTS :
```

```
EQN
```

```
$
```

```
DESCRIPTION : MODULE FOR EQU4NP $
```

```
LEVEL : FUNCTION $
```

```
USE :
```

```
EN /// MASTER
,EO /// MASTER
,NR2 /// MASTER
,OR4 /// MASTER
```

```
$
```

```
DEFINE :
```

```
RB398( UN004 ) = EN ( A0,B0 ) $
RB399( UN001 ) = EO ( A1,B1 ) $
RB400( UN003 ) = EO ( A2,B2 ) $
RB401( UN002 ) = EO ( A3,B3 ) $
RB402( UN000 ) = NR2 ( COMPDIS,UN004 ) $
RB403( EQN ) = OR4 ( UN000,UN001,UN003,UN002 ) $
```

```
END : MODULE $
```

```
MODULE : DFF6/// $
```

```
INPUTS :
```

```
D0,D1,D2,D3,D4,D5,CLK
```

```
$
```

```
OUTPUTS :
```

```
Q0,Q1,Q2,Q3,Q4,Q5
```

```
$
```

```
DESCRIPTION : MODULE FOR DFF6 $
```

```
LEVEL : FUNCTION $
```

```
USE :
```

```
DFF4 ///
,YFD1 /// MASTER
```

```
$
```

```
DEFINE :
```

```
RB398( Q0,Q1,Q2,Q3 ) = DFF4 ( D0,D1,D2
,D3,CLK ) $
RB399( Q4, ) = YFD1 ( D4,CLK ) $
RB400( Q5, ) = YFD1 ( D5,CLK ) $
```

```
END : MODULE $
```

```
MODULE : DFF16/// $
```

```
INPUTS :
```

```
D0,D1,D2,D3,D4,D5,D6,D7,D8,D9,D10,D11,D12,D13,D14,D15,CLK
```

```
$
```

```
OUTPUTS :
```

```
Q0,Q1,Q2,Q3,Q4,Q5,Q6,Q7,Q8,Q9,Q10,Q11,Q12,Q13,Q14,Q15
```

```

$
DESCRIPTION : MODULE FOR DFF16 $
LEVEL : FUNCTION $
USE :
    DFF8 ///

$
DEFINE :
    RB398( Q0,Q1,Q2,Q3,Q4,Q5,Q6
        ,Q7 ) = DFF8 ( D0,D1,D2,D3,D4,D5
        ,D6,D7,CLK ) $
    RB399( Q8,Q9,Q10,Q11,Q12,Q13,Q14
        ,Q15 ) = DFF8 ( D8,D9,D10,D11,D12,D13
        ,D14,D15,CLK ) $
END : MODULE $
MODULE : DFFCL16A/// $
INPUTS :
    D0,D1,D2,D3,D4,D5,D6,D7,D8,D9,D10,D11,D12,D13,D14,D15,CLK,CLN

```

```

$
OUTPUTS :
    Q0,Q1,Q2,Q3,Q4,Q5,Q6,Q7,Q8,Q9,Q10,Q11,Q12,Q13,Q14,Q15
$

```

```

DESCRIPTION : MODULE FOR DFFCL16A $
LEVEL : FUNCTION $
USE :
    YFD2 /// MASTER

```

```

$
DEFINE :
    RB398( Q0, ) = YFD2 ( D0,CLK,CLN ) $
    RB399( Q1, ) = YFD2 ( D1,CLK,CLN ) $
    RB400( Q2, ) = YFD2 ( D2,CLK,CLN ) $
    RB401( Q3, ) = YFD2 ( D3,CLK,CLN ) $
    RB402( Q4, ) = YFD2 ( D4,CLK,CLN ) $
    RB403( Q5, ) = YFD2 ( D5,CLK,CLN ) $
    RB404( Q6, ) = YFD2 ( D6,CLK,CLN ) $
    RB405( Q7, ) = YFD2 ( D7,CLK,CLN ) $
    RB406( Q8, ) = YFD2 ( D8,CLK,CLN ) $
    RB407( Q9, ) = YFD2 ( D9,CLK,CLN ) $
    RB408( Q10, ) = YFD2 ( D10,CLK,CLN ) $
    RB409( Q11, ) = YFD2 ( D11,CLK,CLN ) $
    RB410( Q12, ) = YFD2 ( D12,CLK,CLN ) $
    RB411( Q13, ) = YFD2 ( D13,CLK,CLN ) $
    RB412( Q14, ) = YFD2 ( D14,CLK,CLN ) $
    RB413( Q15, ) = YFD2 ( D15,CLK,CLN ) $

```

```

END : MODULE $
MODULE : DEC4M/// $
INPUTS :
    CLRN,CL

```

```

$
OUTPUTS :
    Q0,Q1,Q2,Q3,NQ0,NQ1,NQ2,NQ3
$

```

```

DESCRIPTION : MODULE FOR DEC4M $
LEVEL : FUNCTION $
USE :
    FJK2P /// MASTER
    ,AN2 /// MASTER
    ,FD2P /// MASTER
    ,NR2 /// MASTER

```

```

$
DEFINE :
    U6( Q3,NQ3 ) = FJK2P ( U5Z,U5Z,CL,CLRN ) $
    U5( U5Z ) = AN2 ( U3Z,NQ2 ) $
    U1( Q0,NQ0 ) = FD2P ( NQ0,CL,CLRN ) $
    U2( Q1,NQ1 ) = FJK2P ( NQ0,NQ0,CL,CLRN ) $
    U3( U3Z ) = NR2 ( Q1,Q0 ) $
    U4( Q2,NQ2 ) = FJK2P ( U3Z,U3Z,CL,CLRN ) $
END : MODULE $
MODULE : DCL16SEL/// $
INPUTS :
    D0,D1,D2,D3,D4,D5,D6,D7,D8,D9,D10,D11,D12,D13,D14,D15,CLK,CLN
    ,PRN,INV
$
OUTPUTS :
    Q0,Q1,Q2,Q3,Q4,Q5,Q6,Q7,Q8,Q9,Q10,Q11,Q12,Q13,Q14,Q15
$
DESCRIPTION : MODULE FOR DCL16SEL $
LEVEL : FUNCTION $
USE :
    YFD3 /// MASTER
    ,MUX21LP /// MASTER
$
DEFINE :
    RB398( QI0,QI0N ) = YFD3 ( D0,CLK,CLN,PRN ) $
    RB399( QI1,QI1N ) = YFD3 ( D1,CLK,CLN,PRN ) $
    RB400( QI2,QI2N ) = YFD3 ( D2,CLK,CLN,PRN ) $
    RB401( QI3,QI3N ) = YFD3 ( D3,CLK,CLN,PRN ) $
    RB402( QI4,QI4N ) = YFD3 ( D4,CLK,CLN,PRN ) $
    RB403( QI5,QI5N ) = YFD3 ( D5,CLK,CLN,PRN ) $
    RB404( QI6,QI6N ) = YFD3 ( D6,CLK,CLN,PRN ) $
    RB405( QI7,QI7N ) = YFD3 ( D7,CLK,CLN,PRN ) $
    RB406( QI8,QI8N ) = YFD3 ( D8,CLK,CLN,PRN ) $
    RB407( QI9,QI9N ) = YFD3 ( D9,CLK,CLN,PRN ) $
    RB408( QI10,QI10N ) = YFD3 ( D10,CLK,CLN,PRN ) $
    RB409( QI11,QI11N ) = YFD3 ( D11,CLK,CLN,PRN ) $
    RB410( QI12,QI12N ) = YFD3 ( D12,CLK,CLN,PRN ) $
    RB411( QI13,QI13N ) = YFD3 ( D13,CLK,CLN,PRN ) $
    RB412( QI14,QI14N ) = YFD3 ( D14,CLK,CLN,PRN ) $
    RB413( QI15,QI15N ) = YFD3 ( D15,CLK,CLN,PRN ) $
    RB418( Q0 ) = MUX21LP ( QI0N,QI0,INV ) $
    RB419( Q1 ) = MUX21LP ( QI1N,QI1,INV ) $
    RB420( Q2 ) = MUX21LP ( QI2N,QI2,INV ) $
    RB421( Q3 ) = MUX21LP ( QI3N,QI3,INV ) $
    RB422( Q4 ) = MUX21LP ( QI4N,QI4,INV ) $
    RB423( Q5 ) = MUX21LP ( QI5N,QI5,INV ) $
    RB424( Q6 ) = MUX21LP ( QI6N,QI6,INV ) $
    RB425( Q7 ) = MUX21LP ( QI7N,QI7,INV ) $
    RB426( Q8 ) = MUX21LP ( QI8N,QI8,INV ) $
    RB427( Q9 ) = MUX21LP ( QI9N,QI9,INV ) $
    RB428( Q10 ) = MUX21LP ( QI10N,QI10,INV ) $
    RB429( Q11 ) = MUX21LP ( QI11N,QI11,INV ) $
    RB430( Q12 ) = MUX21LP ( QI12N,QI12,INV ) $
    RB431( Q13 ) = MUX21LP ( QI13N,QI13,INV ) $
    RB432( Q14 ) = MUX21LP ( QI14N,QI14,INV ) $
    RB433( Q15 ) = MUX21LP ( QI15N,QI15,INV ) $
END : MODULE $
MODULE : DADADD16/// $
INPUTS :
    DAD0,DAD1,DAD2,DAD3,DAD4,DAD5,DAD6,DAD7,DAD8,DAD9,DAD10,DAD11
    ,DAD12,DAD13,DAD14,DAD15,ADJ,OFST0,OFST1,OFST2,OFST3,OFST4,OFST5

```

```

,OFST6,OFST7
$
OUTPUTS :
    DADS0,DADS1,DADS2,DADS3,DADS4,DADS5,DADS6,DADS7,DADS8,DADS9,DADS10
    ,DADS11,DADS12,DADS13,DADS14,DADS15
$
DESCRIPTION : MODULE FOR DADADD16 $
LEVEL : FUNCTION $
USE :
    HA1 /// MASTER
    ,FA1 /// MASTER
    ,EO /// MASTER

```

```

$
DEFINE :
    U1( DADS0,U1C0 ) = HA1 ( DAD0,ADJ ) $
    U2( DADS1,U2C0 ) = FA1 ( U1C0,DAD1,OFST0 ) $
    U3( DADS2,U3C0 ) = FA1 ( U2C0,DAD2,OFST1 ) $
    U8( DADS7,U8C0 ) = FA1 ( U7C0,DAD7,OFST6 ) $
    U4( DADS3,U4C0 ) = FA1 ( U3C0,DAD3,OFST2 ) $
    U9( DADS8,U9C0 ) = FA1 ( U8C0,DAD8,OFST7 ) $
    U7( DADS6,U7C0 ) = FA1 ( U6C0,DAD6,OFST5 ) $
    U6( DADS5,U6C0 ) = FA1 ( U5C0,DAD5,OFST4 ) $
    U5( DADS4,U5C0 ) = FA1 ( U4C0,DAD4,OFST3 ) $
    U10( DADS9,U10C0 ) = HA1 ( DAD9,U9C0 ) $
    U15( DADS14,U15C0 ) = HA1 ( DAD14,U14C0 ) $
    U12( DADS11,U12C0 ) = HA1 ( DAD11,U11C0 ) $
    U11( DADS10,U11C0 ) = HA1 ( DAD10,U10C0 ) $
    U16( DADS15 ) = EO ( DAD15,U15C0 ) $
    U14( DADS13,U14C0 ) = HA1 ( DAD13,U13C0 ) $
    U13( DADS12,U13C0 ) = HA1 ( DAD12,U12C0 ) $

```

```

END : MODULE $
MODULE : CTRL8/// $
INPUTS :
    Q0,NQ0,Q1,NQ1,Q2,NQ2,WR,NSELHL,SEL56
$
OUTPUTS :
    EN0,EN1,EN2,EN3A,EN4,EN5,EN6,EN7,WR0,WR1,WR2,WR3,WR4,WR5,WR6
    ,WR7

```

```

$
DESCRIPTION : MODULE FOR CTRL8 $
LEVEL : FUNCTION $
USE :
    AN4 /// MASTER
    ,IV /// MASTER
    ,ND2 /// MASTER
    ,NR2P /// MASTER

```

```

$
DEFINE :
    RB50( OA7 ) = AN4 ( SEL8,Q2,Q1,Q0 ) $
    RB49( OA6 ) = AN4 ( SEL8,Q2,Q1,NQ0 ) $
    RB48( OA5 ) = AN4 ( SEL8,Q2,NQ1,Q0 ) $
    RB47( OA4 ) = AN4 ( SEL8,Q2,NQ1,NQ0 ) $
    RB46( OA3 ) = AN4 ( SEL8,NQ2,Q1,Q0 ) $
    RB45( OA2 ) = AN4 ( SEL8,NQ2,Q1,NQ0 ) $
    RB35( OA1 ) = AN4 ( SEL8,NQ2,NQ1,Q0 ) $
    RB34( OA0 ) = AN4 ( SEL8,NQ2,NQ1,NQ0 ) $
    RB263( EN0 ) = IV ( OA0 ) $
    RB264( EN1 ) = IV ( OA1 ) $
    RB265( EN2 ) = IV ( OA2 ) $
    RB266( EN3A ) = IV ( OA3 ) $

```



```

RB267( EN4 ) = IV ( OA4 ) $
I5( EN5 ) = IV ( OA5 ) $
I6( EN6 ) = IV ( OA6 ) $
I7( EN7 ) = IV ( OA7 ) $
NA7( WR7 ) = ND2 ( OA7,WR ) $
NA6( WR6 ) = ND2 ( OA6,WR ) $
NA5( WR5 ) = ND2 ( OA5,WR ) $
NA4( WR4 ) = ND2 ( OA4,WR ) $
NA3( WR3 ) = ND2 ( OA3,WR ) $
NA2( WR2 ) = ND2 ( OA2,WR ) $
NA1( WR1 ) = ND2 ( OA1,WR ) $
NA0( WR0 ) = ND2 ( OA0,WR ) $
NOR1( SEL8 ) = NR2P ( SEL56,NSELHL ) $
END : MODULE $
MODULE : CAND24P/// $
INPUTS :
    A0,A1,A2,A3,BI
$
OUTPUTS :
    Z0,Z1,Z2,Z3
$
DESCRIPTION : MODULE FOR CAND24P $
LEVEL : FUNCTION $
USE :
    AN2P /// MASTER
$
DEFINE :
    RB398( Z0 ) = AN2P ( BI,A0 ) $
    RB399( Z1 ) = AN2P ( BI,A1 ) $
    RB400( Z2 ) = AN2P ( BI,A2 ) $
    RB401( Z3 ) = AN2P ( BI,A3 ) $
END : MODULE $
MODULE : A2T1B7/// $
INPUTS :
    S,N6B,N6A,N5B,N5A,N4B,N4A,N3B,N3A,N2B,N2A,N1B,N1A,N0B,N0A
$
OUTPUTS :
    N0Y,N6Y,N5Y,N4Y,N3Y,N2Y,N1Y
$
DESCRIPTION : MODULE FOR A2T1B7 $
LEVEL : FUNCTION $
USE :
    IVDA /// MASTER
    ,A02 /// MASTER
$
DEFINE :
    IV1( NET281,NET285 ) = IVDA ( S ) $
    RB86( N1Y ) = A02 ( N1A,NET281,N1B,NET285 ) $
    RB95( N2Y ) = A02 ( N2A,NET281,N2B,NET285 ) $
    RB98( N3Y ) = A02 ( N3A,NET281,N3B,NET285 ) $
    RB102( N4Y ) = A02 ( N4A,NET281,N4B,NET285 ) $
    RB103( N5Y ) = A02 ( N5A,NET281,N5B,NET285 ) $
    RB104( N6Y ) = A02 ( N6A,NET281,N6B,NET285 ) $
    RB84( N0Y ) = A02 ( N0A,NET281,N0B,NET285 ) $
END : MODULE $
MODULE : ALTCNTA/// $
INPUTS :
    CLK,CLRN
$
OUTPUTS :

```

```

Q0,Q1,Q2,Q3,Q4,Q5,Q6,Q7,Q8,Q9
$
DESCRIPTION : MODULE FOR ALTCNTA $
LEVEL : FUNCTION $
USE :
    FT2 /// MASTER

$
DEFINE :
    RB398( Q0,UN000 ) = FT2 ( CLK,CLRN ) $
    RB399( Q2,UN002 ) = FT2 ( UN001,CLRN ) $
    RB400( Q5,UN005 ) = FT2 ( UN004,CLRN ) $
    RB401( Q8,UN008 ) = FT2 ( UN007,CLRN ) $
    RB402( Q9, ) = FT2 ( UN008,CLRN ) $
    RB403( Q6,UN006 ) = FT2 ( UN005,CLRN ) $
    RB404( Q3,UN003 ) = FT2 ( UN002,CLRN ) $
    RB405( Q1,UN001 ) = FT2 ( UN000,CLRN ) $
    RB406( Q4,UN004 ) = FT2 ( UN003,CLRN ) $
    RB407( Q7,UN007 ) = FT2 ( UN006,CLRN ) $
END : MODULE $
MODULE : YLDG7/// $
INPUTS :
    D6,D5,D4,D3,D2,D1,D0,CL
$
OUTPUTS :
    NQ6,Q6,NQ5,Q5,NQ4,Q4,NQ3,Q3,NQ2,Q2,NQ1,Q1,NQ0,Q0
$
DESCRIPTION : MODULE FOR YLDG7 $
LEVEL : FUNCTION $
USE :
    YLD2 /// MASTER
    ,YLD24B /// MASTER

$
DEFINE :
    BIT7( Q6,NQ6 ) = YLD2 ( D6,CL ) $
    BIT6( Q5,NQ5 ) = YLD2 ( D5,CL ) $
    BIT5( Q4,NQ4 ) = YLD2 ( D4,CL ) $
    RB77( Q0,NQ0,Q1,NQ1,Q2,NQ2,Q3
        ,NQ3 ) = YLD24B ( D0,D1,D2,D3,CL ) $
END : MODULE $
MODULE : YLDG6/// $
INPUTS :
    D5,D4,D3,D2,D1,D0,CL
$
OUTPUTS :
    NQ5,Q5,NQ4,Q4,NQ3,Q3,NQ2,Q2,NQ1,Q1,NQ0,Q0
$
DESCRIPTION : MODULE FOR YLDG6 $
LEVEL : FUNCTION $
USE :
    YLD2 /// MASTER
    ,YLD24B /// MASTER

$
DEFINE :
    BIT6( Q5,NQ5 ) = YLD2 ( D5,CL ) $
    BIT5( Q4,NQ4 ) = YLD2 ( D4,CL ) $
    RB77( Q0,NQ0,Q1,NQ1,Q2,NQ2,Q3
        ,NQ3 ) = YLD24B ( D0,D1,D2,D3,CL ) $
END : MODULE $
MODULE : YLDG5/// $

```

```

INPUTS   :
          D4,D3,D2,D1,D0,CL
$
OUTPUTS  :
          NQ4,Q4,NQ3,Q3,NQ2,Q2,NQ1,Q1,NQ0,Q0
$
DESCRIPTION : MODULE FOR YLDG5 $
LEVEL     : FUNCTION $
USE       :
          YLD2 /// MASTER
          ,YLD24B /// MASTER
$
DEFINE   :
          BIT5( Q4,NQ4 ) = YLD2 ( D4,CL ) $
          RB77( Q0,NQ0,Q1,NQ1,Q2,NQ2,Q3
              ,NQ3 ) = YLD24B ( D0,D1,D2,D3,CL ) $
END : MODULE $
MODULE   : YLDG4/// $
INPUTS   :
          D3,D2,D1,D0,CL
$
OUTPUTS  :
          NQ3,Q3,NQ2,Q2,NQ1,Q1,NQ0,Q0
$
DESCRIPTION : MODULE FOR YLDG4 $
LEVEL     : FUNCTION $
USE       :
          YLD24B /// MASTER
$
DEFINE   :
          NIBBLE( Q0,NQ0,Q1,NQ1,Q2,NQ2,Q3
              ,NQ3 ) = YLD24B ( D0,D1,D2,D3,CL ) $
END : MODULE $
MODULE   : YLDG2/// $
INPUTS   :
          D1,D0,CL
$
OUTPUTS  :
          NQ1,Q1,NQ0,Q0
$
DESCRIPTION : MODULE FOR YLDG2 $
LEVEL     : FUNCTION $
USE       :
          YLD2 /// MASTER
$
DEFINE   :
          BIT2( Q1,NQ1 ) = YLD2 ( D1,CL ) $
          BIT1( Q0,NQ0 ) = YLD2 ( D0,CL ) $
END : MODULE $
MODULE   : YFFD6/// $
INPUTS   :
          CL,NMR,D0,D1,D2,D3,D4,D5
$
OUTPUTS  :
          Q0,NQ0,Q1,NQ1,Q2,NQ2,Q3,NQ3,Q4,NQ4,Q5,NQ5
$
DESCRIPTION : MODULE FOR YFFD6 $
LEVEL     : FUNCTION $
USE       :

```

YFD2 /// MASTER

```
$
DEFINE :
    BIT0( Q0,NQ0 ) = YFD2 ( D0,CL,NMR ) $
    BIT1( Q1,NQ1 ) = YFD2 ( D1,CL,NMR ) $
    BIT2( Q2,NQ2 ) = YFD2 ( D2,CL,NMR ) $
    BIT3( Q3,NQ3 ) = YFD2 ( D3,CL,NMR ) $
    BIT4( Q4,NQ4 ) = YFD2 ( D4,CL,NMR ) $
    BIT5( Q5,NQ5 ) = YFD2 ( D5,CL,NMR ) $
END : MODULE $
MODULE : YFD4SI/// $
INPUTS :
    CL,D
$
OUTPUTS :
    Q0,NQ0,Q1,NQ1,Q2,NQ2,Q3,NQ3
$
DESCRIPTION : MODULE FOR YFD4SI $
LEVEL : FUNCTION $
USE :
    YFD1 /// MASTER
```

```
$
DEFINE :
    BIT0( Q0,NQ0 ) = YFD1 ( D,CL ) $
    BIT1( Q1,NQ1 ) = YFD1 ( Q0,CL ) $
    BIT2( Q2,NQ2 ) = YFD1 ( Q1,CL ) $
    BIT3( Q3,NQ3 ) = YFD1 ( Q2,CL ) $
END : MODULE $
MODULE : YFD3SI/// $
INPUTS :
    CL,D
$
OUTPUTS :
    Q0,NQ0,Q1,NQ1,Q2,NQ2
$
DESCRIPTION : MODULE FOR YFD3SI $
LEVEL : FUNCTION $
USE :
    YFD1 /// MASTER
    ,FD1 /// MASTER
```

```
$
DEFINE :
    BIT0( Q0,NQ0 ) = YFD1 ( D,CL ) $
    BIT1( Q1,NQ1 ) = YFD1 ( Q0,CL ) $
    BIT2( Q2,NQ2 ) = FD1 ( Q1,CL ) $
END : MODULE $
MODULE : YFD2SI/// $
INPUTS :
    CL,D
$
OUTPUTS :
    Q0,NQ0,Q1,NQ1
$
DESCRIPTION : MODULE FOR YFD2SI $
LEVEL : FUNCTION $
USE :
    YFD1 /// MASTER
```

\$

```

DEFINE :
    BIT0( Q0,NQ0 ) = YFD1 ( D,CL ) $
    BIT1( Q1,NQ1 ) = YFD1 ( Q0,CL ) $
END : MODULE $
MODULE : YFD2MD/// $
INPUTS :
    D0,CL,D1
$
OUTPUTS :
    Q0,NQ0,Q1,NQ1
$
DESCRIPTION : MODULE FOR YFD2MD $
LEVEL : FUNCTION $
USE :
    YFD1 /// MASTER

```

```

$
DEFINE :
    MD2( Q1,NQ1 ) = YFD1 ( D1,CL ) $
    MD1( Q0,NQ0 ) = YFD1 ( D0,CL ) $
END : MODULE $
MODULE : YFFD2/// $
INPUTS :
    CL,NMR,D0,D1
$
OUTPUTS :
    Q0,NQ0,Q1,NQ1
$
DESCRIPTION : MODULE FOR YFFD2 $
LEVEL : FUNCTION $
USE :
    YFD2 /// MASTER

```

```

$
DEFINE :
    BIT0( Q0,NQ0 ) = YFD2 ( D0,CL,NMR ) $
    BIT1( Q1,NQ1 ) = YFD2 ( D1,CL,NMR ) $
END : MODULE $
MODULE : VERTC2C/// $
INPUTS :
    EQLOWCLK,CRT07Q6,CRT07Q1,VERTA0,VERTA1,VERTA2,VERTA3,VERTA4,VERTA5
    ,VERTA6,VERTA7,VERRSA0,VERRSA1,VERRSA2,VERRSA3,VERRSA4,VERRSA5
    ,VERRSA6,VERRSA7,VERREA0,VERREA1,VERREA2,VERREA3,VERDEA0,VERDEA1
    ,VERDEA2,VERDEA3,VERDEA4,VERDEA5,VERDEA6,VERDEA7,CRT07QA0,CRT07QA1
    ,CRT07QA2,CRT07QA5,CRT07QA6,CRT07QA7,NRESET,LINEC9,VERBS9,DATAIN0
    ,DATAIN1,DATAIN2,DATAIN3,DATAIN7,DATAIN6,DATAIN4,DATAIN5,CRT07Q4
    ,CRTRSB,CRT07Q3,CHRESET,ONCEPERH,SCROFF,D4E501,WCRTC06,WCRTC18
    ,WCRTC10,WCRTC16,WCRTC12,WCRTC15,TEST1Z,VERCNT0,VERCNT1,VERCNT2
    ,VERCNT3,VERCNT4,VERCNT5,VERCNT6,VERCNT7,VERCNT8,VERCNT9,CVC0
    ,CVC1,CVC2,CVC3,CVC4,CVC5,CVC6,CVC7,CVC8,CVC9
$
OUTPUTS :
    VBLKSP,NT103,NVERDE7,LCOMP,C4A9Q,STVERB,ENDVBLNK,ENDVSYNC,STVERR
    ,EQVTOT,ENDVERDE,B4G4Q,VERDE5,VERDE1,VERDE0,VERDE4,VERDE7,VERDE3
    ,VERDE2,VERDE6,VERBS5,VERBS1,VERBS0,VERBS4,VERBS7,VERBS3,VERBS2
    ,VERBS6,VERT5,VERBE5,VERT1,VERBE1,VERT0,VERBE0,VERT4,VERBE4,VERT7
    ,VERBE7,VERT3,VERBE3,VERT2,VERBE2,VERT6,VERBE6,LINEC5,VERRS5,LINEC1
    ,VERRS1,LINEC0,VERRS0,LINEC4,VERRS4,LINEC7,VERRS7,LINEC3,VERRS3
    ,LINEC2,VERRS2,LINEC6,VERRS6,VDSPLYEN,SCROFFQ,NT45,D3C13Q,EVC0
    ,EVC1,EVC2,EVC3,EVC4,EVC5,EVC6,EVC7,EVC8,EVC9,VCNTRSET
$
DESCRIPTION : MODULE FOR VERTC2C $

```

LEVEL : FUNCTION \$

USE :
FJK3P /// MASTER
,EQL10P ///
,TCNT10 ///
,YLDG8 ///
,IVAP /// MASTER
,YFD2 /// MASTER
,YFD1 /// MASTER
,IVP /// MASTER
,FJK2 /// MASTER
,OR4 /// MASTER
,NR5 /// MASTER
,NR2P /// MASTER
,EQL10 ///
,EO /// MASTER
,AN2 /// MASTER

\$

DEFINE :

RB448(,VBLKSP) = FJK3P (VTOTLDD,VDEEQPNL,ONCEPERH,NRESET,D4E501) \$
RB450(,NT103) = FJK3P (VTOTLDD,VDEEQPNL,EQL0WCLK,NRESET,D4E501) \$
RB449(VDEEQPNL) = EQL10P (CRT07Q6,CRT07Q1,VERDE7,VERDE6 ,VERDE5,VERDE4 ,VERDE3,VERDE2,VERDE1,VERDE0,CVC9,CVC8,CVC7 ,CVC6,CVC5,CVC4,CVC3,CVC2,CVC1,CVC0) \$
VERCNT(,,,EVC0,EVC1,EVC2 ,EVC3,,,,, ,EVC4,EVC5,EVC6,EVC7,EVC8,EVC9) = TCNT10 (ONCEPERH ,VCNTRSET,TEST1Z) \$
CRTC15(,VERBS7,,VERBS6,,VERBS5, ,VERBS4,,VERBS3,,VERBS2,,VERBS1 ,,,VERBS0) = YLDG8 (DATAIN7,DATAIN6,DATAIN5,DATAIN4,DATAIN3 ,DATAIN2,DATAIN1,DATAIN0,WCRTC15) \$
NEWDR2(NVERDE7) = IVAP (VERDE7) \$
CRTC12(,VERDE7,,VERDE6,,VERDE5, ,VERDE4,,VERDE3,,VERDE2,,VERDE1 ,,,VERDE0) = YLDG8 (DATAIN7,DATAIN6,DATAIN5,DATAIN4,DATAIN3 ,DATAIN2,DATAIN1,DATAIN0,WCRTC12) \$
CRTC16(,VERBE7,,VERBE6,,VERBE5, ,VERBE4,,VERBE3,,VERBE2,,VERBE1 ,,,VERBE0) = YLDG8 (DATAIN7,DATAIN6,DATAIN5,DATAIN4,DATAIN3 ,DATAIN2,DATAIN1,DATAIN0,WCRTC16) \$
RB145(,VERRS7,,VERRS6,,VERRS5, ,VERRS4,,VERRS3,,VERRS2,,VERRS1 ,,,VERRS0) = YLDG8 (DATAIN7,DATAIN6,DATAIN5,DATAIN4,DATAIN3 ,DATAIN2,DATAIN1,DATAIN0,WCRTC10) \$
CRTC18(,LINEC7,,LINEC6,,LINEC5, ,LINEC4,,LINEC3,,LINEC2,,LINEC1 ,,,LINEC0) = YLDG8 (DATAIN7,DATAIN6,DATAIN5,DATAIN4,DATAIN3 ,DATAIN2,DATAIN1,DATAIN0,WCRTC18) \$
CRTC06(,VERT7,,VERT6,,VERT5, ,VERT4,,VERT3,,VERT2,,VERT1 ,,,VERT0) = YLDG8 (DATAIN7,DATAIN6,DATAIN5,DATAIN4,DATAIN3 ,DATAIN2,DATAIN1,DATAIN0,WCRTC06) \$
C3D10(VTOTLD,) = YFD2 (EQVTOT,ONCEPERH,NRESET) \$
C3F13(VTOTLDD,) = YFD2 (VTOTLD,NOT1H,NRESET) \$
D3B13(VDSPLYEN,NT45) = FJK3P (VTOTLDD,ENDVERDE,ONCEPERH ,NRESET,D4E501

```

) $
D3C13( D3C13Q, ) = YFD2 ( LCOMP,ONCEPERH,NRESET ) $
D3B9( SCROFFQ, ) = YFD1 ( SCROFF,ONCEPERH ) $
C5A7( ENDVSYNC ) = IVP ( NENDSYNC ) $
C4A9( C4A9Q, ) = FJK2 ( STVERR,ENDVSYNC,ONCEPERH,CRTRSB ) $
C3G13( NOT1H ) = IVP ( ONCEPERH ) $
B5A7( NENDSYNC ) = OR4 ( B5B801,A5C901,B5B1101,B5A901 ) $
B4G7( ENDVBLNK ) = NR5 ( B4B1801,B4C801,B4G801,B4F901,B3G1601 ) $
B4G4( B4G4Q, ) = FJK2 ( STVERB,ENDVBLNK,ONCEPERH,NRESET ) $
B4B18( B4B1801 ) = OR4 ( B4B1701,B4B2001,B4A1901,B4A1801 ) $
B3D13( VCNTRSET ) = NR2P ( BVTOTLDD,CHRESET ) $
RB181( ENDVERDE ) = EQU10 ( CRT07QA6,CRT07QA1,VERDEA7
,VERDEA6,VERDEA5,VERDEA4
,VERDEA3,VERDEA2,VERDEA1,VERDEA0,VERCNT9,VERCNT8,VERCNT7
,VERCNT6,VERCNT5,VERCNT4,VERCNT3,VERCNT2,VERCNT1,VERCNT0
) $
RB389( STVERB ) = EQU10 ( LINEC9,CRT07Q3,VERBS7,VERBS6
,VERBS5,VERBS4
,VERBS3,VERBS2,VERBS1,VERBS0,VERCNT9,VERCNT8,VERCNT7
,VERCNT6,VERCNT5,VERCNT4,VERCNT3,VERCNT2,VERCNT1,VERCNT0
) $
VTOTAL( EQVTOT ) = EQU10 ( CRT07QA5,CRT07QA0,VERTA7,VERTA6
,VERTA5,VERTA4
,VERTA3,VERTA2,VERTA1,VERTA0,VERCNT9,VERCNT8,VERCNT7
,VERCNT6,VERCNT5,VERCNT4,VERCNT3,VERCNT2,VERCNT1,VERCNT0
) $
RB390( STVERR ) = EQU10 ( CRT07QA7,CRT07QA2,VERRSA7,VERRSA6
,VERRSA5,VERRSA4
,VERRSA3,VERRSA2,VERRSA1,VERRSA0,VERCNT9,VERCNT8,VERCNT7
,VERCNT6,VERCNT5,VERCNT4,VERCNT3,VERCNT2,VERCNT1,VERCNT0
) $
A5E5( LCOMP ) = EQU10P ( VERBS9,CRT07Q4,LINEC7,LINEC6
,LINEC5,LINEC4
,LINEC3,LINEC2,LINEC1,LINEC0,CVC9,CVC8,CVC7
,CVC6,CVC5,CVC4,CVC3,CVC2,CVC1,CVC0
) $
B4A18( B4A1801 ) = EO ( VERBE0,VERCNT0 ) $
B5A9( B5A901 ) = EO ( VERREA0,VERCNT0 ) $
B4B20( B4B2001 ) = EO ( VERBE1,VERCNT1 ) $
B5B8( B5B801 ) = EO ( VERREA1,VERCNT1 ) $
A5C9( A5C901 ) = EO ( VERREA2,VERCNT2 ) $
B4B17( B4B1701 ) = EO ( VERBE2,VERCNT2 ) $
B4A19( B4A1901 ) = EO ( VERBE3,VERCNT3 ) $
B5B11( B5B1101 ) = EO ( VERREA3,VERCNT3 ) $
B4G8( B4G801 ) = EO ( VERBE4,VERCNT4 ) $
B4F9( B4F901 ) = EO ( VERBE5,VERCNT5 ) $
B3G16( B3G1601 ) = EO ( VERBE6,VERCNT6 ) $
B4C8( B4C801 ) = EO ( VERBE7,VERCNT7 ) $
RB75( BVTOTLDD ) = AN2 ( ONCEPERH,VTOTLDD ) $
END : MODULE $
MODULE : TCNT5/// $
INPUTS :
CL,CLRN
$
OUTPUTS :
Q0,NQ0,Q1,NQ1,Q2,NQ2,Q3,NQ3,Q4,NQ4
$
DESCRIPTION : MODULE FOR TCNT5 $
LEVEL : FUNCTION $
USE :
YFD2 /// MASTER

```

```

$
DEFINE :
    YFD2T0( Q0,NQ0 ) = YFD2 ( NQ0,CL,CLRN ) $
    YFD2T1( Q1,NQ1 ) = YFD2 ( NQ1,NQ0,CLRN ) $
    YFD2T2( Q2,NQ2 ) = YFD2 ( NQ2,NQ1,CLRN ) $
    YFD2T3( Q3,NQ3 ) = YFD2 ( NQ3,NQ2,CLRN ) $
    YFD2T4( Q4,NQ4 ) = YFD2 ( NQ4,NQ3,CLRN ) $
END : MODULE $
MODULE : TCNT2/// $
INPUTS :
    CL,CLRN
$
OUTPUTS :
    Q0,NQ0,Q1,NQ1
$
DESCRIPTION : MODULE FOR TCNT2 $
LEVEL : FUNCTION $
USE :
    YFD2 /// MASTER
$
DEFINE :
    YFD2T1( Q1,NQ1 ) = YFD2 ( NQ1,NQ0,CLRN ) $
    YFD2T0( Q0,NQ0 ) = YFD2 ( NQ0,CL,CLRN ) $
END : MODULE $
MODULE : RWCNT1/// $
INPUTS :
    ND0,ND1,NT40,ND3A,ND4A,CL,ENA,LD,CLR
$
OUTPUTS :
    Q0,Q1,Q2,Q3,Q4
$
DESCRIPTION : MODULE FOR RWCNT1 $
LEVEL : FUNCTION $
USE :
    NR2 /// MASTER
    ,FD2S /// MASTER
    ,FJK2S /// MASTER
    ,ND2 /// MASTER
    ,IV /// MASTER
$
DEFINE :
    RB270( LD0 ) = NR2 ( ND0,ENA ) $
    BIT0( Q0,NQ0 ) = FD2S ( NQ0,CL,CLR,LD0,LD
        ) $
    RB271( LD1A ) = NR2 ( ND1,ENA ) $
    BIT1( Q1,NQ1 ) = FJK2S ( Q0,Q0,CL,CLR,LD1A
        ,LD ) $
    CNT2S( CNT2 ) = NR2 ( NQ0,NQ1 ) $
    RB272( LD2A ) = NR2 ( NT40,ENA ) $
    BIT2( Q2,NQ2 ) = FJK2S ( CNT2,CNT2,CL,CLR,LD2A
        ,LD ) $
    CNT3NS( CNTN3 ) = ND2 ( CNT2,Q2 ) $
    CNT3S( CNT3 ) = IV ( CNTN3 ) $
    RB273( LD3A ) = NR2 ( ND3A,ENA ) $
    BIT3( Q3,NQ3 ) = FJK2S ( CNT3,CNT3,CL,CLR,LD3A
        ,LD ) $
    CNT4S( CNT4 ) = NR2 ( CNTN3,NQ3 ) $
    RB274( LD4A ) = NR2 ( ND4A,ENA ) $
    BIT4( Q4,NQ4 ) = FJK2S ( CNT4,CNT4,CL,CLR,LD4A
        ,LD ) $

```



```
END : MODULE $
MODULE : RED8L1/// $
INPUTS :
    D0A,D1A,D2A,D3A,D4A,D5A,D6A,D7A,D0B,D1B,D2B,D3B,D4B,D5B,D6B,D7B
    ,D0C,D1C,D2C,D3C,D4C,D5C,D6C,D7C,D0D,D1D,D2D,D3D,D4D,D5D,D6D,D7D
    ,D0E,D1E,D2E,D3E,D4E,D5E,D6E,D7E,D0F,D1F,D2F,D3F,D4F,D5F,D6F,D7F
    ,D0G,D1G,D2G,D3G,D4G,D5G,D6G,D7G,D0H,D1H,D2H,D3H,D4H,D5H,D6H,D7H
    ,NRDA,NRDB,NRDC,NRDD,NRDE,NRDF,NRDG,NRDH
```

```
$
OUTPUTS :
    Q0,Q1,Q2,Q3,Q4,Q5,Q6,Q7
```

```
$
DESCRIPTION : MODULE FOR RED8L1 $
LEVEL : FUNCTION $
USE :
    READ2 ///
    ,ND4 /// MASTER
```

```
$
DEFINE :
    READAB( AB0,AB1,AB2,AB3,AB4,AB5,AB6
    ,AB7 ) = READ2 ( D0A,D1A,D2A,D3A,D4A,D5A
    ,D6A,D7A,D0B,D1B,D2B,D3B,D4B
    ,D5B,D6B,D7B,NRDA,NRDB ) $
    READCD( CD0,CD1,CD2,CD3,CD4,CD5,CD6
    ,CD7 ) = READ2 ( D0C,D1C,D2C,D3C,D4C,D5C
    ,D6C,D7C,D0D,D1D,D2D,D3D,D4D
    ,D5D,D6D,D7D,NRDC,NRDD ) $
    READEF( EF0,EF1,EF2,EF3,EF4,EF5,EF6
    ,EF7 ) = READ2 ( D0E,D1E,D2E,D3E,D4E,D5E
    ,D6E,D7E,D0F,D1F,D2F,D3F,D4F
    ,D5F,D6F,D7F,NRDE,NRDF ) $
    READGH( GH0,GH1,GH2,GH3,GH4,GH5,GH6
    ,GH7 ) = READ2 ( D0G,D1G,D2G,D3G,D4G,D5G
    ,D6G,D7G,D0H,D1H,D2H,D3H,D4H
    ,D5H,D6H,D7H,NRDG,NRDH ) $
    NAN0( Q0 ) = ND4 ( AB0,CD0,EF0,GH0 ) $
    NAN1( Q1 ) = ND4 ( AB1,CD1,EF1,GH1 ) $
    NAN2( Q2 ) = ND4 ( AB2,CD2,EF2,GH2 ) $
    NAN3( Q3 ) = ND4 ( AB3,CD3,EF3,GH3 ) $
    NAN4( Q4 ) = ND4 ( AB4,CD4,EF4,GH4 ) $
    NAN5( Q5 ) = ND4 ( AB5,CD5,EF5,GH5 ) $
    NAN6( Q6 ) = ND4 ( AB6,CD6,EF6,GH6 ) $
    NAN7( Q7 ) = ND4 ( AB7,CD7,EF7,GH7 ) $
```

```
END : MODULE $
MODULE : RED6L1/// $
INPUTS :
    D0A,D1A,D2A,D3A,D4A,D5A,D6A,D7A,D0B,D1B,D2B,D3B,D4B,D5B,D6B,D7B
    ,D0C,D1C,D2C,D3C,D4C,D5C,D6C,D7C,D0D,D1D,D2D,D3D,D4D,D5D,D6D,D7D
    ,D0E,D1E,D2E,D3E,D4E,D5E,D6E,D7E,D0F,D1F,D2F,D3F,D4F,D5F,D6F,D7F
    ,NRDA,NRDB,NRDC,NRDD,NRDE,NRDF
```

```
$
OUTPUTS :
    Q0,Q1,Q2,Q3,Q4,Q5,Q6,Q7
```

```
$
DESCRIPTION : MODULE FOR RED6L1 $
LEVEL : FUNCTION $
USE :
    READ2 ///
    ,ND3 /// MASTER
```

```
$
```

```

DEFINE :
  READAB( AB0,AB1,AB2,AB3,AB4,AB5,AB6
    ,AB7 ) = READ2 ( D0A,D1A,D2A,D3A,D4A,D5A
    ,D6A,D7A,D0B,D1B,D2B,D3B,D4B
    ,D5B,D6B,D7B,NRDA,NRDB ) $
  READCD( CD0,CD1,CD2,CD3,CD4,CD5,CD6
    ,CD7 ) = READ2 ( D0C,D1C,D2C,D3C,D4C,D5C
    ,D6C,D7C,D0D,D1D,D2D,D3D,D4D
    ,D5D,D6D,D7D,NRDC,NRDD ) $
  READEF( EF0,EF1,EF2,EF3,EF4,EF5,EF6
    ,EF7 ) = READ2 ( D0E,D1E,D2E,D3E,D4E,D5E
    ,D6E,D7E,D0F,D1F,D2F,D3F,D4F
    ,D5F,D6F,D7F,NRDE,NRDF ) $
  NAN0( Q0 ) = ND3 ( AB0,CD0,EF0 ) $
  NAN1( Q1 ) = ND3 ( AB1,CD1,EF1 ) $
  NAN2( Q2 ) = ND3 ( AB2,CD2,EF2 ) $
  NAN3( Q3 ) = ND3 ( AB3,CD3,EF3 ) $
  NAN4( Q4 ) = ND3 ( AB4,CD4,EF4 ) $
  NAN5( Q5 ) = ND3 ( AB5,CD5,EF5 ) $
  NAN6( Q6 ) = ND3 ( AB6,CD6,EF6 ) $
  NAN7( Q7 ) = ND3 ( AB7,CD7,EF7 ) $
END : MODULE $
MODULE : RED5L1/// $
INPUTS :
  NRDA,NRDB,NRDC,D0A,D0B,D0C,D1A,D1B,D1C,D2A,D2B,D2C,D3A,D3B,D3C
  ,D4A,D4B,D4C,D5A,D5B,D5C,D6A,D6B,D6C,D7A,D7B,D7C,NRDD,NRDE,D7D
  ,D7E,D6D,D6E,D5D,D5E,D4D,D4E,D3D,D3E,D2D,D2E,D1D,D1E,D0D,D0E
$
OUTPUTS :
  Q0,Q1,Q2,Q3,Q4,Q5,Q6,Q7
$
DESCRIPTION : MODULE FOR RED5L1 $
LEVEL : FUNCTION $
USE :
  ND3 /// MASTER
  ,ND2 /// MASTER
  ,IV /// MASTER
  ,READ2 ///

```

```

$
DEFINE :
  RB398( Q7 ) = ND3 ( AB7,C7,DE7 ) $
  RB399( Q6 ) = ND3 ( AB6,C6,DE6 ) $
  RB400( Q5 ) = ND3 ( AB5,C5,DE5 ) $
  RB401( Q4 ) = ND3 ( AB4,C4,DE4 ) $
  RB402( Q3 ) = ND3 ( AB3,C3,DE3 ) $
  RB403( Q2 ) = ND3 ( AB2,C2,DE2 ) $
  RB404( Q1 ) = ND3 ( AB1,C1,DE1 ) $
  RB405( Q0 ) = ND3 ( AB0,C0,DE0 ) $
  RB406( C0 ) = ND2 ( UN000,D0C ) $
  RB407( C1 ) = ND2 ( UN000,D1C ) $
  RB408( UN000 ) = IV ( NRDC ) $
  READAB( AB0,AB1,AB2,AB3,AB4,AB5,AB6
    ,AB7 ) = READ2 ( D0A,D1A,D2A,D3A,D4A,D5A
    ,D6A,D7A,D0B,D1B,D2B,D3B,D4B
    ,D5B,D6B,D7B,NRDA,NRDB ) $
  RB409( C2 ) = ND2 ( UN000,D2C ) $
  RB410( C3 ) = ND2 ( UN000,D3C ) $
  RB411( C4 ) = ND2 ( UN000,D4C ) $
  RB412( C5 ) = ND2 ( UN000,D5C ) $
  RB413( C6 ) = ND2 ( UN000,D6C ) $
  RB414( C7 ) = ND2 ( UN000,D7C ) $

```

```

READDE( DE0,DE1,DE2,DE3,DE4,DE5,DE6
,DE7 ) = READ2 ( D0D,D1D,D2D,D3D,D4D,D5D
,D6D,D7D,D0E,D1E,D2E,D3E,D4E
,D5E,D6E,D7E,NRDD,NRDE ) $
END : MODULE $
MODULE : READ6/// $
INPUTS :
F7,F6,F5,F4,F3,F2,F1,F0,E7,E6,E5,E4,E3,E2,E1,E0,D7,D6,D5,D4,D3
,D2,D1,D0,C7,C6,C5,C4,C3,C2,C1,C0,B7,B6,B5,B4A,B3,B2,B1,B0,A7
,A6,A5,A4,A3,A2,A1,A0,LD5S,LD4S,LD3S,LD2S,LD1S,LD0S
$
OUTPUTS :
Y0,Y1,Y2,Y3,Y4,Y5,Y6,Y7
$
DESCRIPTION : MODULE FOR READ6 $
LEVEL : FUNCTION $
USE :
ND3 /// MASTER
,A02 /// MASTER
$
DEFINE :
RB42( Y7 ) = ND3 ( A15Z,A15AZ,A15BZ ) $
A15B( A15BZ ) = A02 ( E7,LD4S,F7,LD5S ) $
A15A( A15AZ ) = A02 ( C7,LD2S,D7,LD3S ) $
RB41( A15Z ) = A02 ( A7,LD0S,B7,LD1S ) $
RB40( Y6 ) = ND3 ( A13Z,A13AZ,A13BZ ) $
A13B( A13BZ ) = A02 ( E6,LD4S,F6,LD5S ) $
A13A( A13AZ ) = A02 ( C6,LD2S,D6,LD3S ) $
RB39( A13Z ) = A02 ( A6,LD0S,B6,LD1S ) $
RB38( Y5 ) = ND3 ( A11Z,A11AZ,A11BZ ) $
A11B( A11BZ ) = A02 ( E5,LD4S,F5,LD5S ) $
A11A( A11AZ ) = A02 ( C5,LD2S,D5,LD3S ) $
RB37( A11Z ) = A02 ( A5,LD0S,B5,LD1S ) $
RB36( Y4 ) = ND3 ( A9Z,A9AZ,A9BZ ) $
A9B( A9BZ ) = A02 ( E4,LD4S,F4,LD5S ) $
A9A( A9AZ ) = A02 ( C4,LD2S,D4,LD3S ) $
RB52( A9Z ) = A02 ( A4,LD0S,B4A,LD1S ) $
RB51( Y3 ) = ND3 ( A7Z,A7AZ,A7BZ ) $
A7B( A7BZ ) = A02 ( E3,LD4S,F3,LD5S ) $
A7A( A7AZ ) = A02 ( C3,LD2S,D3,LD3S ) $
RB50( A7Z ) = A02 ( A3,LD0S,B3,LD1S ) $
RB49( Y2 ) = ND3 ( A5Z,A5AZ,A5BZ ) $
A5B( A5BZ ) = A02 ( E2,LD4S,F2,LD5S ) $
A5A( A5AZ ) = A02 ( C2,LD2S,D2,LD3S ) $
RB48( A5Z ) = A02 ( A2,LD0S,B2,LD1S ) $
RB47( Y1 ) = ND3 ( A2Z,A2AZ,A2BZ ) $
A2B( A2BZ ) = A02 ( E1,LD4S,F1,LD5S ) $
A2A( A2AZ ) = A02 ( C1,LD2S,D1,LD3S ) $
RB45( A2Z ) = A02 ( A1,LD0S,B1,LD1S ) $
RB46( Y0 ) = ND3 ( A1Z,A1AZ,A1BZ ) $
A1B( A1BZ ) = A02 ( E0,LD4S,F0,LD5S ) $
A1A( A1AZ ) = A02 ( C0,LD2S,D0,LD3S ) $
RB35( A1Z ) = A02 ( A0,LD0S,B0,LD1S ) $
END : MODULE $
MODULE : RAM610A/// $
INPUTS :
WR,A,AN,B,BN,C,CN,D,DN,DIN0,DIN1,DIN2,DIN3,DIN4,DIN5
$
OUTPUTS :
PRAM0,PRAM1,PRAM2,PRAM3,PRAM4,PRAM5
$

```

DESCRIPTION : MODULE FOR RAM610A \$

LEVEL : FUNCTION \$

USE :

IVP /// MASTER
,RAM64 ///
,ND2 /// MASTER
,B4I /// MASTER
,MUX41P /// MASTER
,NR3 /// MASTER
,IV /// MASTER

\$

DEFINE :

IVD0(NDIN0) = IVP (DIN0) \$
IVD1(NDIN1) = IVP (DIN1) \$
IVD2(NDIN2) = IVP (DIN2) \$
IVD3(NDIN3) = IVP (DIN3) \$
IVD4(NDIN4) = IVP (DIN4) \$
IVD5(NDIN5) = IVP (DIN5) \$
GP0(U010,U011,U012,U013,U014,U015) = RAM64 (NDIN0
,NDIN1,NDIN2,NDIN3,NDIN4,NDIN5,U000,U001
,U002,U003,RFND2Z,U029,U028,U027) \$
GP1(U009,U008,U007,U006,U005,U004) = RAM64 (NDIN0
,NDIN1,NDIN2,NDIN3,NDIN4,NDIN5,U000,U001
,U002,U003,U026,U025,U024,U023) \$
NF(U016) = ND2 (RFNR4Z,U003) \$
GP2(U035,U034,U033,U032,U031,U030) = RAM64 (NDIN0
,NDIN1,NDIN2,NDIN3,NDIN4,NDIN5,U000,U001
,U002,U003,U022,U021,U020,U019) \$
GP3(U045,U044,U043,U042,U041,U040) = RAM64 (NDIN0
,NDIN1,NDIN2,NDIN3,NDIN4,NDIN5,U000,U001
,U002,U003,RFND3Z,U018,U017,U016) \$
NE(U017) = ND2 (RFNR4Z,U002) \$
ND(U018) = ND2 (RFNR4Z,U001) \$
R6FND3(RFND3Z) = ND2 (RFNR4Z,U000) \$
N8(U022) = ND2 (RFNR3Z,U000) \$
N9(U021) = ND2 (RFNR3Z,U001) \$
NA(U020) = ND2 (RFNR3Z,U002) \$
NB(U019) = ND2 (RFNR3Z,U003) \$
N4(U026) = ND2 (RFNR2Z,U000) \$
N5(U025) = ND2 (RFNR2Z,U001) \$
N6(U024) = ND2 (RFNR2Z,U002) \$
N7(U023) = ND2 (RFNR2Z,U003) \$
R6FND2(RFND2Z) = ND2 (RFNR1Z,U000) \$
N1(U029) = ND2 (RFNR1Z,U001) \$
N2(U028) = ND2 (RFNR1Z,U002) \$
N3(U027) = ND2 (RFNR1Z,U003) \$
B0G(U039) = ND2 (C,D) \$
B1G(U038) = ND2 (CN,D) \$
B2G(U037) = ND2 (C,DN) \$
B3G(U036) = ND2 (CN,DN) \$
RB99(U003) = B4I (U036) \$
RB96(U002) = B4I (U037) \$
RB87(U001) = B4I (U038) \$
RB85(U000) = B4I (U039) \$
D0MUX(PRAM0) = MUX41P (U045,U035,U009,U010,A,B
) \$
D1MUX(PRAM1) = MUX41P (U044,U034,U008,U011,A,B
) \$
D2MUX(PRAM2) = MUX41P (U043,U033,U007,U012,A,B
) \$
D4MUX(PRAM4) = MUX41P (U041,U031,U005,U014,A,B

```

) $
D5MUX( PRAM5 ) = MUX41P ( U040,U030,U004,U015,A,B
) $
D3MUX( PRAM3 ) = MUX41P ( U042,U032,U006,U013,A,B
) $
R6FNR3( RFNR3Z ) = NR3 ( NWR,AN,B ) $
R6FNR2( RFNR2Z ) = NR3 ( NWR,BN,A ) $
R6FNR1( RFNR1Z ) = NR3 ( NWR,BN,AN ) $
R6FNR4( RFNR4Z ) = NR3 ( NWR,A,B ) $
IVWRCK( NWR ) = IV ( WR ) $
END : MODULE $
MODULE : PSHFDD/// $
INPUTS :
CL,SD,SHIFT,LOAD,D0,D1,D2,D3,D4,D5,D6,D7
$
OUTPUTS :
SO,NSO
$
DESCRIPTION : MODULE FOR PSHFDD $
LEVEL : FUNCTION $
USE :
MUXFD ///
$
DEFINE :
RB98( NQ3, ) = MUXFD ( D3,LOAD,SHIFT,NQ2,CL
) $
RB86( NQ1, ) = MUXFD ( LOAD,D1,NQ0,SHIFT,CL
) $
RB84( NQ0, ) = MUXFD ( LOAD,D0,SHIFT,SD,CL
) $
RB103( NQ5, ) = MUXFD ( D5,LOAD,SHIFT,NQ4,CL
) $
RB105( SO,NSO ) = MUXFD ( D7,LOAD,SHIFT,NQ6,CL
) $
RB95( NQ2, ) = MUXFD ( LOAD,D2,NQ1,SHIFT,CL
) $
RB102( NQ4, ) = MUXFD ( D4,LOAD,SHIFT,NQ3,CL
) $
RB104( NQ6, ) = MUXFD ( D6,LOAD,NQ5,SHIFT,CL
) $
END : MODULE $
MODULE : PELP1/// $
INPUTS :
D,CL,S0,S1,S2,SEL07,SEL8,ENA
$
OUTPUTS :
DOUT
$
DESCRIPTION : MODULE FOR PELP1 $
LEVEL : FUNCTION $
USE :
MUX81 /// MASTER
,ND3 /// MASTER
,ND2 /// MASTER
,YFD9S ///
$
DEFINE :
RB95( MD ) = MUX81 ( Q0,Q1,Q2,Q3,Q4,Q5
,Q6,Q7,S0,S1,S2 ) $
B32( DOUT2 ) = ND3 ( Q8,SEL8,ENA ) $

```

```

B31( DOUT1 ) = ND3 ( MD,SEL07,ENA ) $
RB98( DOUT ) = ND2 ( DOUT1,DOUT2 ) $
RB86( Q0,,Q1,,Q2,,Q3
      ,,Q4,,Q5,,Q6,
      ,Q7,,Q8, ) = YFD9S ( CL,D ) $
END : MODULE $
MODULE : ORA25/// $
INPUTS :
      D2,D1,C2,C1,B2,B1,A2,A1,E2,E1
$
OUTPUTS :
      Z
$
DESCRIPTION : MODULE FOR ORA25 $
LEVEL : FUNCTION $
USE :
      A04 /// MASTER
      ,NR2 /// MASTER
      ,IV /// MASTER
      ,A07 /// MASTER
$
DEFINE :
      B1X2( AX2 ) = A04 ( C1,C2,D1,D2 ) $
      B1X1( AX1 ) = A04 ( A1,A2,B1,B2 ) $
      RB86( A ) = NR2 ( AX1,AX2 ) $
      B2XIV( Z ) = IV ( ZXIV ) $
      RB95( ZXIV ) = A07 ( E1,E2,A ) $
END : MODULE $
MODULE : ND5RE/// $
INPUTS :
      A,B,C,D,E
$
OUTPUTS :
      Z
$
DESCRIPTION : MODULE FOR ND5RE $
LEVEL : FUNCTION $
USE :
      ND3 /// MASTER
      ,ND2 /// MASTER
      ,NR2P /// MASTER
      ,B4I /// MASTER
$
DEFINE :
      RB86( OB1 ) = ND3 ( A,B,C ) $
      RB95( OB2 ) = ND2 ( D,E ) $
      RB98( OB3 ) = NR2P ( OB1,OB2 ) $
      RB102( Z ) = B4I ( OB3 ) $
END : MODULE $
MODULE : MXRBO2/// $
INPUTS :
      D00,D10,D01,D11,D02,D12,D03,D13,A
$
OUTPUTS :
      Z0,Z1,Z2,Z3
$
DESCRIPTION : MODULE FOR MXRBO2 $
LEVEL : FUNCTION $
USE :
      MUX21L /// MASTER

```

```

,B5IP /// MASTER

$
DEFINE :
    RB86( X0 ) = MUX21L ( D00,D10,A ) $
    RB95( X1 ) = MUX21L ( D01,D11,A ) $
    RB98( X2 ) = MUX21L ( D02,D12,A ) $
    RB102( X3 ) = MUX21L ( D03,D13,A ) $
    RB103( Z0 ) = B5IP ( X0 ) $
    RB104( Z1 ) = B5IP ( X1 ) $
    RB105( Z2 ) = B5IP ( X2 ) $
    RB106( Z3 ) = B5IP ( X3 ) $
END : MODULE $
MODULE : MXRB01/// $
INPUTS :
    D00,D10,D01,D11,D02,D12,D03,D13,A
$
OUTPUTS :
    Z0,Z1,Z2,Z3
$
DESCRIPTION : MODULE FOR MXRB01 $
LEVEL : FUNCTION $
USE :
    MUX21L /// MASTER
    ,B5IP /// MASTER

$
DEFINE :
    RB86( X0 ) = MUX21L ( D00,D10,A ) $
    RB95( X1 ) = MUX21L ( D01,D11,A ) $
    RB98( X2 ) = MUX21L ( D02,D12,A ) $
    RB102( X3 ) = MUX21L ( D03,D13,A ) $
    RB103( Z0 ) = B5IP ( X0 ) $
    RB104( Z1 ) = B5IP ( X1 ) $
    RB105( Z2 ) = B5IP ( X2 ) $
    RB106( Z3 ) = B5IP ( X3 ) $
END : MODULE $
MODULE : MUX42/// $
INPUTS :
    SELB,B1,A1,B0,A0
$
OUTPUTS :
    C1,C0
$
DESCRIPTION : MODULE FOR MUX42 $
LEVEL : FUNCTION $
USE :
    IV /// MASTER
    ,MUX21L /// MASTER

$
DEFINE :
    B2N( C1 ) = IV ( C1N ) $
    RB95( C1N ) = MUX21L ( A1,B1,SELB ) $
    B1N( C0 ) = IV ( C0N ) $
    RB86( C0N ) = MUX21L ( A0,B0,SELB ) $
END : MODULE $
MODULE : MUX241/// $
INPUTS :
    S34,S12,S24,S13,D40,D30,D20,D10,D41,D31,D21,D11
$
OUTPUTS :

```

```

DOUT0,DOUT1
$
DESCRIPTION : MODULE FOR MUX241 $
LEVEL : FUNCTION $
USE :
    MUX41I ///
$
DEFINE :
    RB95( DOUT0 ) = MUX41I ( S13,S24,D10,D20,D30,D40
        ,S12,S34 ) $
    RB86( DOUT1 ) = MUX41I ( S13,S24,D11,D21,D31,D41
        ,S12,S34 ) $
END : MODULE $
MODULE : MUX168/// $
INPUTS :
    SELB,B7,A7,B6,A6,B5,A5,B4A,A4,B3,A3,B2,A2,B1,A1,B0,A0
$
OUTPUTS :
    C7,C6,C5,C4,C3,C2,C1,C0
$
DESCRIPTION : MODULE FOR MUX168 $
LEVEL : FUNCTION $
USE :
    IV /// MASTER
    ,MUX21L /// MASTER
$
DEFINE :
    B8N( C7 ) = IV ( C7N ) $
    RB106( C7N ) = MUX21L ( A7,B7,SELB ) $
    B7N( C6 ) = IV ( C6N ) $
    RB105( C6N ) = MUX21L ( A6,B6,SELB ) $
    B6N( C5 ) = IV ( C5N ) $
    RB104( C5N ) = MUX21L ( A5,B5,SELB ) $
    B5N( C4 ) = IV ( C4N ) $
    RB103( C4N ) = MUX21L ( A4,B4A,SELB ) $
    B4N( C3 ) = IV ( C3N ) $
    RB102( C3N ) = MUX21L ( A3,B3,SELB ) $
    B3N( C2 ) = IV ( C2N ) $
    RB98( C2N ) = MUX21L ( A2,B2,SELB ) $
    B2N( C1 ) = IV ( C1N ) $
    RB95( C1N ) = MUX21L ( A1,B1,SELB ) $
    B1N( C0 ) = IV ( C0N ) $
    RB86( C0N ) = MUX21L ( A0,B0,SELB ) $
END : MODULE $
MODULE : MUXFD1/// $
INPUTS :
    CL,I4,I3,I2,I1
$
OUTPUTS :
    NQ,Q
$
DESCRIPTION : MODULE FOR MUXFD1 $
LEVEL : FUNCTION $
USE :
    IV /// MASTER
    ,AO2 /// MASTER
    ,FD1 /// MASTER
$
DEFINE :

```



```

MUXN( D ) = IV ( DN ) $
MUX( DN ) = A02 ( I1,I2,I3,I4 ) $
FD( Q,NQ ) = FD1 ( D,CL ) $
END : MODULE $
MODULE : MEMIO3/// $
INPUTS :
    RD1,RD2,RD3,RD4,CL0,CL1,CL2,CL3,MASKC,BD,CPUL,CRTL
$
OUTPUTS :
    DOUT,CPUD,CPUDN,CRTD
$
DESCRIPTION : MODULE FOR MEMIO3 $
LEVEL : FUNCTION $
USE :
    A02 /// MASTER
    ,MUX41 /// MASTER
    ,YFD1 /// MASTER
    ,LD2 /// MASTER
    ,MUX21L /// MASTER
$
DEFINE :
    RB29( WDN ) = A02 ( RD1,RD2,RD3,RD4 ) $
    FUNMUF( FUNCD ) = MUX41 ( CL0,CL1,CL2,CL3,CPUD,WDN
        ) $
    FD0( CRTD, ) = YFD1 ( BD,CRTL ) $
    LDG0( CPUD,CPUDN ) = LD2 ( BD,CPUL ) $
    RB286( DOUT ) = MUX21L ( FUNCD,CPUDN,MASKC ) $
END : MODULE $
MODULE : MACC16/// $
INPUTS :
    NCPUDONE,MCLK,NRESET,NT28,NT27,GC05D3,F1B1501,SR4D3,SR4ND2,ADDR01
$
OUTPUTS :
    SECBYTE,NRMEMAC,HLDRDY,FCAS1,FCAS3
$
DESCRIPTION : MODULE FOR MACC16 $
LEVEL : FUNCTION $
USE :
    NR2 /// MASTER
    ,IV /// MASTER
    ,FJK2 /// MASTER
    ,AN2 /// MASTER
    ,ND2 /// MASTER
    ,A07 /// MASTER
    ,NR3 /// MASTER
    ,OR2 /// MASTER
$
DEFINE :
    U139( U139Z ) = NR2 ( U143QN,NCPUDONE ) $
    U158( U158Z ) = NR2 ( U159Z,U143Q ) $
    U140( U140Z ) = NR2 ( U142Q,U150Z ) $
    U159( U159Z ) = IV ( U150Z ) $
    U142( U142Q, ) = FJK2 ( U139Z,U158Z,MCLK,NRESET ) $
    U143( U143Q,U143QN ) = FJK2 ( U140Z,U142Q,MCLK,NRESET ) $
    U138( U138Z ) = AN2 ( U142Q,U143QN ) $
    U141( NRMEMAC ) = ND2 ( U142Q,U143Q ) $
    U144( U144Z ) = A07 ( U145Z,U146Z,NT28 ) $
    U149( U149Z ) = ND2 ( NT27,U145Z ) $
    U150( U150Z ) = AN2 ( U144Z,U149Z ) $

```

```

U201( U201Z ) = NR3 ( GC05D3,U200Z,U145Z ) $
U147( U147Z ) = IV ( F1B1501 ) $
U145( U145Z ) = NR2 ( U147Z,SR4D3 ) $
U146( U146Z ) = NR2 ( SR4D3,SR4ND2 ) $
U151( U151Z ) = IV ( NT28 ) $
U148( U148Z ) = NR3 ( U145Z,U146Z,U151Z ) $
U152( U152Z ) = A07 ( U154Z,U155Z,U148Z ) $
U160( FCAS1 ) = IV ( U152Z ) $
U154( U154Z ) = IV ( ADDR01 ) $
U155( U155Z ) = IV ( SR4D3 ) $
U153( U153Z ) = A07 ( ADDR01,U155Z,U148Z ) $
U161( FCAS3 ) = IV ( U153Z ) $
U200( U200Z ) = IV ( NT27 ) $
U202( U202Z ) = IV ( NCPUDONE ) $
U203( U203Z ) = NR2 ( NCPUDONE,U207QN ) $
U204( U204Z ) = NR2 ( U207Q,U202Z ) $
U205( U205Q,U205QN ) = FJK2 ( U203Z,U204Z,MCLK,NRESET ) $
U206( U206Z ) = AN2 ( U205QN,U201Z ) $
U207( U207Q,U207QN ) = FJK2 ( U206Z,U205Q,MCLK,NRESET ) $
U208( SECBYTE ) = OR2 ( U205Q,U138Z ) $
U209( HLRDY ) = OR2 ( U207Q,U143Q ) $
END : MODULE $
MODULE : LD4G2/// $
INPUTS :
    CL,CLRN,D0,D1
$
OUTPUTS :
    Q0,NQ0,Q1,NQ1
$
DESCRIPTION : MODULE FOR LD4G2 $
LEVEL : FUNCTION $
USE :
    LD4 /// MASTER
$
DEFINE :
    BIT1( Q0,NQ0 ) = LD4 ( D0,CL,CLRN ) $
    BIT2( Q1,NQ1 ) = LD4 ( D1,CL,CLRN ) $
END : MODULE $
MODULE : LDG8R/// $
INPUTS :
    NMR,CL,D0,D1,D2,D3,D4,D5,D6,D7
$
OUTPUTS :
    Q0,NQ0,Q1,NQ1,Q2,NQ2,Q3,NQ3,Q4,NQ4,Q5,NQ5,Q6,NQ6,Q7,NQ7
$
DESCRIPTION : MODULE FOR LDG8R $
LEVEL : FUNCTION $
USE :
    LD4 /// MASTER
$
DEFINE :
    BIT1( Q0,NQ0 ) = LD4 ( D0,CL,NMR ) $
    BIT2( Q1,NQ1 ) = LD4 ( D1,CL,NMR ) $
    BIT3( Q2,NQ2 ) = LD4 ( D2,CL,NMR ) $
    BIT4( Q3,NQ3 ) = LD4 ( D3,CL,NMR ) $
    BIT5( Q4,NQ4 ) = LD4 ( D4,CL,NMR ) $
    BIT6( Q5,NQ5 ) = LD4 ( D5,CL,NMR ) $
    BIT7( Q6,NQ6 ) = LD4 ( D6,CL,NMR ) $
    BIT8( Q7,NQ7 ) = LD4 ( D7,CL,NMR ) $
END : MODULE $

```

```

MODULE : LDG8/// $
INPUTS :
    CL,D0,D1,D2,D3,D4,D5,D6,D7
$
OUTPUTS :
    Q0,NQ0,Q1,NQ1,Q2,NQ2,Q3,NQ3,Q4,NQ4,Q5,NQ5,Q6,NQ6,Q7,NQ7
$
DESCRIPTION : MODULE FOR LDG8 $
LEVEL : FUNCTION $
USE :
    LD2 /// MASTER

```

```

$
DEFINE :
    BIT1( Q0,NQ0 ) = LD2 ( D0,CL ) $
    BIT2( Q1,NQ1 ) = LD2 ( D1,CL ) $
    BIT3( Q2,NQ2 ) = LD2 ( D2,CL ) $
    BIT4( Q3,NQ3 ) = LD2 ( D3,CL ) $
    BIT5( Q4,NQ4 ) = LD2 ( D4,CL ) $
    BIT6( Q5,NQ5 ) = LD2 ( D5,CL ) $
    BIT7( Q6,NQ6 ) = LD2 ( D6,CL ) $
    BIT8( Q7,NQ7 ) = LD2 ( D7,CL ) $
END : MODULE $

```

```

MODULE : LDG7/// $
INPUTS :
    CL,D0,D1,D2,D3,D4,D5,D6
$
OUTPUTS :
    Q0,NQ0,Q1,NQ1,Q2,NQ2,Q3,NQ3,Q4,NQ4,Q5,NQ5,Q6,NQ6
$
DESCRIPTION : MODULE FOR LDG7 $
LEVEL : FUNCTION $
USE :
    LD2 /// MASTER

```

```

$
DEFINE :
    BIT1( Q0,NQ0 ) = LD2 ( D0,CL ) $
    BIT2( Q1,NQ1 ) = LD2 ( D1,CL ) $
    BIT3( Q2,NQ2 ) = LD2 ( D2,CL ) $
    BIT4( Q3,NQ3 ) = LD2 ( D3,CL ) $
    BIT5( Q4,NQ4 ) = LD2 ( D4,CL ) $
    BIT6( Q5,NQ5 ) = LD2 ( D5,CL ) $
    BIT7( Q6,NQ6 ) = LD2 ( D6,CL ) $
END : MODULE $

```

```

MODULE : LDG6R/// $
INPUTS :
    NMR,CL,D0,D1,D2,D3,D4,D5
$
OUTPUTS :
    Q0,NQ0,Q1,NQ1,Q2,NQ2,Q3,NQ3,Q4,NQ4,Q5,NQ5
$
DESCRIPTION : MODULE FOR LDG6R $
LEVEL : FUNCTION $
USE :
    LD4 /// MASTER

```

```

$
DEFINE :
    BIT1( Q0,NQ0 ) = LD4 ( D0,CL,NMR ) $
    BIT2( Q1,NQ1 ) = LD4 ( D1,CL,NMR ) $
    BIT3( Q2,NQ2 ) = LD4 ( D2,CL,NMR ) $

```

```

        BIT4( Q3,NQ3 ) = LD4 ( D3,CL,NMR ) $
        BIT5( Q4,NQ4 ) = LD4 ( D4,CL,NMR ) $
        BIT6( Q5,NQ5 ) = LD4 ( D5,CL,NMR ) $
END : MODULE $
MODULE : LDG6/// $
INPUTS :
        CL,D0,D1,D2,D3,D4,D5
$
OUTPUTS :
        Q0,NQ0,Q1,NQ1,Q2,NQ2,Q3,NQ3,Q4,NQ4,Q5,NQ5
$
DESCRIPTION : MODULE FOR LDG6 $
LEVEL : FUNCTION $
USE :
        LD2 /// MASTER

```

```

$
DEFINE :
        BIT1( Q0,NQ0 ) = LD2 ( D0,CL ) $
        BIT2( Q1,NQ1 ) = LD2 ( D1,CL ) $
        BIT3( Q2,NQ2 ) = LD2 ( D2,CL ) $
        BIT4( Q3,NQ3 ) = LD2 ( D3,CL ) $
        BIT5( Q4,NQ4 ) = LD2 ( D4,CL ) $
        BIT6( Q5,NQ5 ) = LD2 ( D5,CL ) $
END : MODULE $

```

```

MODULE : LDG5/// $
INPUTS :
        CL,D0,D1,D2,D3,D4
$
OUTPUTS :
        Q0,NQ0,Q1,NQ1,Q2,NQ2,Q3,NQ3,Q4,NQ4
$
DESCRIPTION : MODULE FOR LDG5 $
LEVEL : FUNCTION $
USE :
        LD2 /// MASTER

```

```

$
DEFINE :
        BIT1( Q0,NQ0 ) = LD2 ( D0,CL ) $
        BIT2( Q1,NQ1 ) = LD2 ( D1,CL ) $
        BIT3( Q2,NQ2 ) = LD2 ( D2,CL ) $
        BIT4( Q3,NQ3 ) = LD2 ( D3,CL ) $
        BIT5( Q4,NQ4 ) = LD2 ( D4,CL ) $
END : MODULE $

```

```

MODULE : LDG4R/// $
INPUTS :
        NMR,CL,D0,D1,D2,D3
$
OUTPUTS :
        Q0,NQ0,Q1,NQ1,Q2,NQ2,Q3,NQ3
$
DESCRIPTION : MODULE FOR LDG4R $
LEVEL : FUNCTION $
USE :
        LD4 /// MASTER

```

```

$
DEFINE :
        BIT1( Q0,NQ0 ) = LD4 ( D0,CL,NMR ) $
        BIT2( Q1,NQ1 ) = LD4 ( D1,CL,NMR ) $
        BIT3( Q2,NQ2 ) = LD4 ( D2,CL,NMR ) $

```

```
        BIT4( Q3,NQ3 ) = LD4 ( D3,CL,NMR ) $
END : MODULE $
MODULE : LDG4/// $
INPUTS :
        CL,D0,D1,D2,D3
$
OUTPUTS :
        Q0,NQ0,Q1,NQ1,Q2,NQ2,Q3,NQ3
$
DESCRIPTION : MODULE FOR LDG4 $
LEVEL : FUNCTION $
USE :
        LD2 /// MASTER
```

```
$
DEFINE :
        BIT1( Q0,NQ0 ) = LD2 ( D0,CL ) $
        BIT2( Q1,NQ1 ) = LD2 ( D1,CL ) $
        BIT3( Q2,NQ2 ) = LD2 ( D2,CL ) $
        BIT4( Q3,NQ3 ) = LD2 ( D3,CL ) $
```

```
END : MODULE $
MODULE : LDG3R/// $
INPUTS :
        NMR,CL,D0,D1,D2
```

```
$
OUTPUTS :
        Q0,NQ0,Q1,NQ1,Q2,NQ2
```

```
$
DESCRIPTION : MODULE FOR LDG3R $
LEVEL : FUNCTION $
USE :
        LD4 /// MASTER
```

```
$
DEFINE :
        BIT1( Q0,NQ0 ) = LD4 ( D0,CL,NMR ) $
        BIT2( Q1,NQ1 ) = LD4 ( D1,CL,NMR ) $
        BIT3( Q2,NQ2 ) = LD4 ( D2,CL,NMR ) $
```

```
END : MODULE $
MODULE : LDG3/// $
INPUTS :
        CL,D0,D1,D2
```

```
$
OUTPUTS :
        Q0,NQ0,Q1,NQ1,Q2,NQ2
```

```
$
DESCRIPTION : MODULE FOR LDG3 $
LEVEL : FUNCTION $
USE :
        LD2 /// MASTER
```

```
$
DEFINE :
        BIT1( Q0,NQ0 ) = LD2 ( D0,CL ) $
        BIT2( Q1,NQ1 ) = LD2 ( D1,CL ) $
        BIT3( Q2,NQ2 ) = LD2 ( D2,CL ) $
```

```
END : MODULE $
MODULE : LDG2R/// $
INPUTS :
        NMR,CL,D0,D1
```

```
$
OUTPUTS :
```

```
Q0,NQ0,Q1,NQ1
$
DESCRIPTION : MODULE FOR LDG2R $
LEVEL : FUNCTION $
USE :
LD4 /// MASTER
```

```
$
DEFINE :
BIT1( Q0,NQ0 ) = LD4 ( D0,CL,NMR ) $
BIT2( Q1,NQ1 ) = LD4 ( D1,CL,NMR ) $
END : MODULE $
MODULE : LDG2/// $
INPUTS :
CL,D0,D1
```

```
$
OUTPUTS :
Q0,NQ0,Q1,NQ1
```

```
$
DESCRIPTION : MODULE FOR LDG2 $
LEVEL : FUNCTION $
USE :
LD2 /// MASTER
```

```
$
DEFINE :
BIT1( Q0,NQ0 ) = LD2 ( D0,CL ) $
BIT2( Q1,NQ1 ) = LD2 ( D1,CL ) $
END : MODULE $
MODULE : EQU8P/// $
INPUTS :
A0,B0,A1,B1,A2,B2,A3,B3,A4,B4A,A5,B5,A6,B6,A7,B7,COMPDIS
```

```
$
OUTPUTS :
EQ
```

```
$
DESCRIPTION : MODULE FOR EQU8P $
LEVEL : FUNCTION $
USE :
EN /// MASTER
,E0 /// MASTER
,NR2 /// MASTER
,NR8 /// MASTER
```

```
$
DEFINE :
RB398( UN003 ) = EN ( A0,B0 ) $
RB399( UN001 ) = E0 ( A1,B1 ) $
RB400( UN002 ) = E0 ( A2,B2 ) $
RB401( UN004 ) = E0 ( A3,B3 ) $
RB402( UN000 ) = NR2 ( COMPDIS,UN003 ) $
RB403( EQ ) = NR8 ( UN000,UN001,UN002,UN004,UN005,UN006
,UN007,UN008 ) $
RB404( UN005 ) = E0 ( A4,B4A ) $
RB405( UN006 ) = E0 ( A5,B5 ) $
RB406( UN007 ) = E0 ( A6,B6 ) $
RB407( UN008 ) = E0 ( A7,B7 ) $
END : MODULE $
MODULE : EQU8/// $
INPUTS :
A0,A1,A2,A3,A4,A5,A6,A7,B0,B1,B2,B3,B4A,B5,B6,B7
```

```
$
```

OUTPUTS :

EQ

\$

DESCRIPTION : MODULE FOR EQU8 \$

LEVEL : FUNCTION \$

USE :

EO /// MASTER

,NR5 /// MASTER

,OR4 /// MASTER

\$

DEFINE :

BIT0(C0) = EO (A0,B0) \$

BIT1(C1) = EO (A1,B1) \$

BIT2(C2) = EO (A2,B2) \$

BIT3(C3) = EO (A3,B3) \$

BIT4(C4) = EO (A4,B4A) \$

BIT5(C5) = EO (A5,B5) \$

BIT6(C6) = EO (A6,B6) \$

BIT7(C7) = EO (A7,B7) \$

RB183(EQ) = NR5 (EQ03N,C4,C5,C6,C7) \$

RB184(EQ03N) = OR4 (C0,C1,C2,C3) \$

END : MODULE \$

MODULE : EQU4N/// \$

INPUTS :

A1,A2,A3,B0,B1,B2,B3,A0

\$

OUTPUTS :

EQN

\$

DESCRIPTION : MODULE FOR EQU4N \$

LEVEL : FUNCTION \$

USE :

EO /// MASTER

,OR4 /// MASTER

\$

DEFINE :

RB86(C0) = EO (A0,B0) \$

RB95(C1) = EO (A1,B1) \$

RB98(C2) = EO (A2,B2) \$

RB102(C3) = EO (A3,B3) \$

RB103(EQN) = OR4 (C0,C1,C2,C3) \$

END : MODULE \$

MODULE : EQU16/// \$

INPUTS :

B15,B14,B13,B12A,B11,B10,B9,B8A,B7,B6,B5,B4A,B3,B2,B1,B0,A15
,A14,A13,A12,A11,A10,A9,A8,A7,A6,A5,A4,A3,A2,A1,A0

\$

OUTPUTS :

EQ

\$

DESCRIPTION : MODULE FOR EQU16 \$

LEVEL : FUNCTION \$

USE :

NR4 /// MASTER

,ND4 /// MASTER

,EN /// MASTER

\$

DEFINE :

RB183(EQ) = NR4 (EQ03N,EQ47N,EQ811N,EQ1215N) \$

```

RB185( EQ1215N ) = ND4 ( C12,C13,C14,C15 ) $
RB187( EQ811N ) = ND4 ( C8,C9,C10,C11 ) $
RB186( EQ47N ) = ND4 ( C4,C5,C6,C7 ) $
RB184( EQ03N ) = ND4 ( C0,C1,C2,C3 ) $
BIT15( C15 ) = EN ( A15,B15 ) $
BIT14( C14 ) = EN ( A14,B14 ) $
BIT13( C13 ) = EN ( A13,B13 ) $
BIT12( C12 ) = EN ( A12,B12A ) $
BIT11( C11 ) = EN ( A11,B11 ) $
BIT10( C10 ) = EN ( A10,B10 ) $
BIT9( C9 ) = EN ( A9,B9 ) $
BIT8( C8 ) = EN ( A8,B8A ) $
BIT7( C7 ) = EN ( A7,B7 ) $
BIT6( C6 ) = EN ( A6,B6 ) $
BIT5( C5 ) = EN ( A5,B5 ) $
BIT4( C4 ) = EN ( A4,B4A ) $
BIT3( C3 ) = EN ( A3,B3 ) $
BIT2( C2 ) = EN ( A2,B2 ) $
BIT1( C1 ) = EN ( A1,B1 ) $
BIT0( C0 ) = EN ( A0,B0 ) $
END : MODULE $
MODULE : CNT16/// $
INPUTS :
    CLA,CLB,CLC,CLD,E6845,LOAD,RESET,D0,ND0,D1,ND1,D2,NT40,D3,ND3A
    ,D4,ND4A,D5,ND5A,D6,ND6A,D7,ND7,D8,ND8A,D9,ND9,D10,ND10,D11,ND11
    ,D12,ND12,D13,ND13,D14,ND14,D15,ND15
$
OUTPUTS :
    Q0,NQ0,Q1,NQ1,Q2,NQ2,Q3,NQ3,Q4,NQ4,Q5,NQ5,Q6,NQ6,Q7,NQ7,Q8,NQ8
    ,Q9,NQ9,Q10,NQ10,Q11,NQ11,Q12,NQ12,Q13,NQ13,Q14,NQ14,Q15,NQ15
$
DESCRIPTION : MODULE FOR CNT16 $
LEVEL : FUNCTION $
USE :
    FCOUP4 ///
    ,IV /// MASTER
    ,CNTUP4 ///
    ,NR2 /// MASTER
    ,NR3 /// MASTER
    ,ECOUP4 ///
$
DEFINE :
    GP0( NCMT1,Q0,NQ0,Q1,NQ1,Q2,NQ2
        ,Q3,NQ3 ) = FCOUP4 ( CLA,LOAD,RESET,D0,ND0
        ,D1,ND1,D2,NT40,D3,ND3A ) $
    RB262( CNT1 ) = IV ( NCMT1 ) $
    GP1( NCMT2,Q4,NQ4,Q5,NQ5,Q6,NQ6
        ,Q7,NQ7 ) = CNTUP4 ( CLC,CNT1,LOAD,RESET,D4
        ,ND4A,D5,ND5A,D6,ND6A,D7,ND7
        ) $
    NR2B( CNT2 ) = NR2 ( NCMT1,NCMT2 ) $
    GP2( NCMT3,Q8,NQ8,Q9,NQ9,Q10,NQ10
        ,Q11,NQ11 ) = CNTUP4 ( CLB,CNT2,LOAD,RESET,D8
        ,ND8A,D9,ND9,D10,ND10,D11,ND11
        ) $
    NR3C( CNT3 ) = NR3 ( NCMT1,NCMT2,NCMT3 ) $
    GP3( Q12,NQ12,Q13,NQ13,Q14,NQ14,Q15
        ,NQ15 ) = ECOUP4 ( CLD,CNT3,E6845,LOAD,RESET,D12
        ,ND12,D13,ND13,D14,ND14,D15,ND15
        ) $

```



```

END : MODULE $
MODULE : CCMP1/// $
INPUTS :
    I0,D0N,C0,D0,I1,D1N,C1,D1,I2,D2N,C2,D2,I3,D3N,C3,D3
$
OUTPUTS :
    DOUT
$
DESCRIPTION : MODULE FOR CCMP1 $
LEVEL : FUNCTION $
USE :
    A02 /// MASTER
    ,AN4 /// MASTER
$
DEFINE :
    RB455( X0 ) = A02 ( I0,D0N,C0,D0 ) $
    RB456( X1 ) = A02 ( I1,D1N,C1,D1 ) $
    RB457( X2 ) = A02 ( I2,D2N,C2,D2 ) $
    RB458( X3 ) = A02 ( I3,D3N,C3,D3 ) $
    RB175( DOUT ) = AN4 ( X0,X1,X2,X3 ) $
END : MODULE $
MODULE : BRSHFT/// $
INPUTS :
    S0,S1,S2,D0,D1,D2,D3,D4,D5,D6,D7
$
OUTPUTS :
    DOUT0,DOUT1,DOUT2,DOUT3,DOUT4,DOUT5,DOUT6,DOUT7
$
DESCRIPTION : MODULE FOR BRSHFT $
LEVEL : FUNCTION $
USE :
    MUX81 /// MASTER
$
DEFINE :
    RB105( DOUT0 ) = MUX81 ( D7,D0,D1,D2,D3,D4
        ,D5,D6,S0,S1,S2 ) $
    RB104( DOUT1 ) = MUX81 ( D6,D7,D0,D1,D2,D3
        ,D4,D5,S0,S1,S2 ) $
    RB103( DOUT2 ) = MUX81 ( D4,D5,D6,D7,D0,D1
        ,D2,D3,S0,S1,S2 ) $
    RB102( DOUT3 ) = MUX81 ( D5,D6,D7,D0,D1,D2
        ,D3,D4,S0,S1,S2 ) $
    RB98( DOUT4 ) = MUX81 ( D3,D4,D5,D6,D7,D0
        ,D1,D2,S0,S1,S2 ) $
    RB95( DOUT5 ) = MUX81 ( D1,D2,D3,D4,D5,D6
        ,D7,D0,S0,S1,S2 ) $
    RB86( DOUT6 ) = MUX81 ( D2,D3,D4,D5,D6,D7
        ,D0,D1,S0,S1,S2 ) $
    BX1( DOUT7 ) = MUX81 ( D0,D1,D2,D3,D4,D5
        ,D6,D7,S0,S1,S2 ) $
END : MODULE $
MODULE : A2T1B8/// $
INPUTS :
    S,N7B,N7A,N6B,N6A,N5B,N5A,N4B,N4A,N3B,N3A,N2B,N2A,N1B,N1A,N0B
    ,N0A
$
OUTPUTS :
    N0Y,N7Y,N6Y,N5Y,N4Y,N3Y,N2Y,N1Y
$
DESCRIPTION : MODULE FOR A2T1B8 $

```

LEVEL : FUNCTION \$

USE :
IVDA /// MASTER
,A02 /// MASTER

\$

DEFINE :

IV1(NET281,NET285) = IVDA (S) \$
RB86(N1Y) = A02 (N1A,NET281,N1B,NET285) \$
RB95(N2Y) = A02 (N2A,NET281,N2B,NET285) \$
RB98(N3Y) = A02 (N3A,NET281,N3B,NET285) \$
RB102(N4Y) = A02 (N4A,NET281,N4B,NET285) \$
RB103(N5Y) = A02 (N5A,NET281,N5B,NET285) \$
RB104(N6Y) = A02 (N6A,NET281,N6B,NET285) \$
RB105(N7Y) = A02 (N7A,NET281,N7B,NET285) \$
RB84(N0Y) = A02 (N0A,NET281,N0B,NET285) \$

END : MODULE \$

MODULE : ADMUX2/// \$

INPUTS :

RAST,CAST,CKCAS,GRAPH,TEXT,CPU,CRT,CKCRT,ADDR,CPUR,TEXR,ADDC
,CPUC,TEXC

\$

OUTPUTS :

YA,XA

\$

DESCRIPTION : MODULE FOR ADMUX2 \$

LEVEL : FUNCTION \$

USE :
LD2 /// MASTER
,A02 /// MASTER
,IV /// MASTER

\$

DEFINE :

RB89(NT47,) = LD2 (GCPUADDC,CKCAS) \$
RB107(,QCPUADDC) = LD2 (CPUADDC,CKCAS) \$
RB106(QCPUR,) = LD2 (CPUR,CKCRT) \$
RB105(QCPUC,) = LD2 (CPUC,CKCRT) \$
RB104(YAN) = A02 (NT47,CAST,GCPUADDR,RAST) \$
B6N(YA) = IV (YAN) \$
RB103(XAN) = A02 (QCPUADDC,CAST,CPUADDR,RAST) \$
B5N(XA) = IV (XAN) \$
RB102(CPUADDRN) = A02 (TEXR,TEXT,GCPUADDR,GRAPH) \$
B4N(CPUADDR) = IV (CPUADDRN) \$
RB98(CPUADDC) = A02 (TEXC,TEXT,GCPUADDC,GRAPH) \$
RB95(NT32) = A02 (QCPUR,CRT,ADDR,CPU) \$
B2N(GCPUADDR) = IV (NT32) \$
RB86(NT31) = A02 (QCPUC,CRT,ADDC,CPU) \$
B1N(GCPUADDC) = IV (NT31) \$

END : MODULE \$

MODULE : ADD161/// \$

INPUTS :

CL,SELS,NMR,ST0,ST1A,ST2,ST3,ST4,ST5,ST6,ST7,ST8,ST9,ST10,ST11
,ST12,ST13,ST14,ST15,ADJ,OFF0,OFF1,OFF2,OFF3,OFF4,OFF5,OFF6,OFF7
,SSS

\$

OUTPUTS :

S0,S1,S2,S3,S4,S5,S6,S7,S8,S9,S10,S11,S12,S13,S14,S15,Q0,NQ0
,Q1,NQ1,Q2,NQ2,Q3,NQ3,Q4,NQ4,Q5,NQ5,Q6,NQ6,Q7,NQ7,Q8,NQ8,Q9,NQ9
,Q10,NQ10,Q11,NQ11,Q12,NQ12,Q13,NQ13,Q14,NQ14,Q15,NQ15

\$

DESCRIPTION : MODULE FOR ADD161 \$

LEVEL : FUNCTION \$

USE :
ADD4M1 ///
,ADD1M1 ///
,CAY2 ///
,CAY1 ///

\$

DEFINE :

RB26(C1,S3,S2,S1,S0,NQ3,Q3
,NQ2,Q2,NQ1,Q1,NQ0,Q0) = ADD4M1 (OFF2
,ST3,OFF1,ST2,OFF0,ST1A,ADJ,ST0
,SSS,SELS,CL,NMR) \$
RB27(C2,S7,S6,S5,S4,NQ7,Q7
,NQ6,Q6,NQ5,Q5,NQ4,Q4) = ADD4M1 (OFF6
,ST7,OFF5,ST6,OFF4,ST5,OFF3,ST4
,C1,SELS,CL,NMR) \$
RB24(C3,S8,Q8,NQ8) = ADD1M1 (OFF7,ST8,C2
,SELS,CL,NMR) \$
CAY23(S9,S10,Q9,NQ9,Q10,NQ10,C4
) = CAY2 (SELS,CL,NMR,C3,ST9,ST10) \$
CAY24(S11,S12,Q11,NQ11,Q12,NQ12,C5
) = CAY2 (SELS,CL,NMR,C4,ST11,ST12) \$
CAY25(S13,S14,Q13,NQ13,Q14,NQ14,C6
) = CAY2 (SELS,CL,NMR,C5,ST13,ST14) \$
CAY16(S15,Q15,NQ15) = CAY1 (SELS,CL,NMR,C6
,ST15) \$

END : MODULE \$

MODULE : TEST5/// \$

INPUTS :

NT77,D3G30,NT82,R3D77FQ2,R3D77FQ3,R3D77FQ4,NT80,R3D77FQ5,NT81

\$

OUTPUTS :

TESTFZ,TEST4Z,TEST0Z,TESTBZ,TESTAZ,TESTEZ,TESTCZ,TEST2Z,TEST1Z
,TEST3Z

\$

DESCRIPTION : MODULE FOR TEST5 \$

LEVEL : FUNCTION \$

USE :
NR2 /// MASTER
,ND2 /// MASTER
,D24L /// MASTER
,OR3 /// MASTER

\$

DEFINE :

TEST0(TEST0Z) = NR2 (D3D4N00,D3C1001) \$
TEST1(TEST1Z) = NR2 (D3C1001,D3D4N01) \$
TEST2(TEST2Z) = NR2 (D3C1001,D3D4N02) \$
TEST3(TEST3Z) = NR2 (D3C1001,D3D4N03) \$
TEST4(TEST4Z) = NR2 (D3E901,D3D4N00) \$
TESTA(TESTAZ) = NR2 (D3C501,D3D4N02) \$
TESTB(TESTBZ) = NR2 (D3C501,D3D4N03) \$
TESTC(TESTCZ) = NR2 (D3E401,D3D4N00) \$
TESTE(TESTEZ) = NR2 (D3E401,D3D4N02) \$
TESTF(TESTFZ) = NR2 (D3E401,D3D4N03) \$
D3C10(D3C1001) = ND2 (NT80,D3F301) \$
D3C5(D3C501) = ND2 (NT80,D3F401) \$
D3D4(D3D4N00,D3D4N01,D3D4N02,D3D4N03) = D24L (R3D77FQ2
,R3D77FQ3) \$
TESTEN(D1G301) = OR3 (D3G30,NT82,NT77) \$

```

D3E9( D3E901 ) = ND2 ( R3D77FQ4,D3F301 ) $
D3E4( D3E401 ) = ND2 ( D3F401,R3D77FQ4 ) $
D3F4( D3F401 ) = NR2 ( NT81,D1G301 ) $
D3F3( D3F301 ) = NR2 ( D1G301,R3D77FQ5 ) $
END : MODULE $
MODULE : TESTREG/// $
INPUTS :
    NMR,CL,D0,D1,D2,D3,D4,D5,D6,D7,IMCLK
$
OUTPUTS :
    Q0,NQ0,Q1,NQ1,Q2,NQ2,Q3,NQ3,Q4,NQ4,Q5,NQ5,Q6,NQ6,Q7,NQ7,NQP6
$
DESCRIPTION : MODULE FOR TESTREG $
LEVEL : FUNCTION $
USE :
    LD4 /// MASTER
    ,LD2 /// MASTER
    ,FD2 /// MASTER

```

```

$
DEFINE :
    BIT1( Q0,NQ0 ) = LD4 ( D0,CL,NMR ) $
    BIT2( Q1,NQ1 ) = LD4 ( D1,CL,NMR ) $
    BIT3( Q2,NQ2 ) = LD2 ( D2,CL ) $
    BIT4( Q3,NQ3 ) = LD2 ( D3,CL ) $
    BIT5( Q4,NQ4 ) = LD2 ( D4,CL ) $
    BIT6( Q5,NQ5 ) = LD2 ( D5,CL ) $
    BIT7( Q6,NQ6 ) = FD2 ( D6,CL,NMR ) $
    BIT8( Q7,NQ7 ) = LD4 ( D7,CL,NMR ) $
    BIT7D( QP6,NQP6 ) = FD2 ( Q6,IMCLK,NMR ) $
END : MODULE $

```

```

MODULE : SYNCOUT/// $
INPUTS :
    VSYNC,HSYNCPNL,PLASMA,CRT,NCHRCLK
$
OUTPUTS :
    VSYNCOUT,HSYNCOUT

```

```

$
DESCRIPTION : MODULE FOR SYNCOUT $
LEVEL : FUNCTION $
USE :
    YFD1 /// MASTER
    ,IV /// MASTER
    ,MUX21L /// MASTER
    ,MUX21HP /// MASTER

```

```

$
DEFINE :
    RB444( VSYNCD, ) = YFD1 ( VSYNC,NCHRCLK ) $
    RB398( UN009, ) = YFD1 ( VSYNCD,HSYNCPNL ) $
    RB399( UN001, ) = YFD1 ( UN003,UN007 ) $
    RB400( ,UN008 ) = YFD1 ( UN001,UN007 ) $
    RB401( ,UN000 ) = YFD1 ( UN009,UN002 ) $
    RB402( UN010 ) = IV ( HSYNCPNL ) $
    RB403( UN005 ) = MUX21L ( UN008,UN000,PLASMA ) $
    RB404( VSYNCOUT ) = MUX21HP ( UN005,VSYNC,CRT ) $
    RB405( UN006, ) = YFD1 ( HSYNCPNL,NCHRCLK ) $
    RB406( UN004, ) = YFD1 ( UN006,NCHRCLK ) $
    RB407( UN007,UN002 ) = YFD1 ( UN004,NCHRCLK ) $
    RB408( HSYNCOUT ) = MUX21L ( UN002,UN010,CRT ) $
    RB409( UN003, ) = YFD1 ( UN009,UN007 ) $

```

```

END : MODULE $
MODULE : RASREF/// $
INPUTS :
    RASERNIE,DOTCLKSL,SLEEPON,NRESET,REFINT0,REFINT1,REFINT2,REFINT3
    ,REFINT4,REFINT5,REFINT6,REFINT7,C3D501
$
OUTPUTS :
    RASGEN,REFINCSL,REFINC
$
DESCRIPTION : MODULE FOR RASREF $
LEVEL : FUNCTION $
USE :
    EQU8 ///
    ,TCNT2 ///
    ,TCNT8 ///
    ,AN3 /// MASTER
    ,FD2 /// MASTER
    ,MUX21HP /// MASTER
    ,A06 /// MASTER
    ,YFD1 /// MASTER

```

```

$
DEFINE :
    U2( UN001 ) = EQU8 ( U1Q0,U1Q1,U1Q2,U1Q3,U1Q4,U1Q5
    ,U1Q6,U1Q7,REFINT0,REFINT1,REFINT2,REFINT3,REFINT4
    ,REFINT5,REFINT6,REFINT7 ) $
    U0( ,U0Q1, ) = TCNT2 ( DOTCLKSL,NRESET ) $
    U1( U1Q0,,U1Q1,,U1Q2,,U1Q3
    ,,U1Q4,,U1Q5,,U1Q6,
    ,U1Q7, ) = TCNT8 ( U3Z,U0Q1 ) $
    RB398( U3Z ) = AN3 ( UN004,NRESET,SLEEPON ) $
    RB399( UN004, ) = FD2 ( UN000,U0Q1,NRESET ) $
    U5( RASGEN ) = MUX21HP ( RASERNIE,UN004,SLEEPON ) $
    RB400( REFINC ) = MUX21HP ( C3D501,UN004,SLEEPON ) $
    RB401( UN000 ) = A06 ( UN002,UN003,UN001 ) $
    RB402( ,UN003 ) = YFD1 ( UN002,U0Q1 ) $
    RB403( UN002, ) = YFD1 ( SLEEPON,U0Q1 ) $
    RB404( REFINCSL, ) = YFD1 ( UN004,DOTCLKSL ) $

```

```

END : MODULE $
MODULE : HVC2/// $
INPUTS :
    VC0,VC1,VC2,VC3,VC4,VC5,VC6,VC7,VC8,VC9,VDSA0,VDSA1,VDSA2,VDSA3
    ,VDSA4,VDSA5,VDSA6,VDSA7,VDSA8,VDSA9,VDSB0,VDSB1,VDSB2,VDSB3,VDSB4
    ,VDSB5,VDSB6,VDSB7,VDSB8,VDSB9,VDEA0,VDEA1,VDEA2,VDEA3,VDEA4,VDEA5
    ,VDEA6,VDEA7,VDEA8,VDEA9,VDEB0,VDEB1,VDEB2,VDEB3,VDEB4,VDEB5,VDEB6
    ,VDEB7,VDEB8,VDEB9,HSYNC,SL350,DSPTD2,SL480,VSUNC

```

```

$
OUTPUTS :
    VPU,VPL
$
DESCRIPTION : MODULE FOR HVC2 $
LEVEL : FUNCTION $
USE :
    SEL1020 ///
    ,EQU10 ///
    ,FJK2 /// MASTER
    ,IV /// MASTER
    ,NR3 /// MASTER

```

```

$
DEFINE :
    RB398( UN,UN001,UN002,UN003,UN004,UN005,UN006

```

```

,UN007,UN008,UN009 ) = SEL1020 ( VDSA0,VDSA1,VDSA2,VDSA3
,VDSA4,VDSA5,VDSA6,VDSA7,VDSA8,VDSA9,VDSB0
,VDSB1,VDSB2,VDSB3,VDSB4,VDSB5,VDSB6,VDSB7
,VDSB8,VDSB9,SL350 ) $
RB399( UN019,UN018,UN017,UN016,UN015,UN014,UN013
,UN012,UN011,UN010 ) = SEL1020 ( VDEA0,VDEA1,VDEA2,VDEA3
,VDEA4,VDEA5,VDEA6,VDEA7,VDEA8,VDEA9,VDEB0
,VDEB1,VDEB2,VDEB3,VDEB4,VDEB5,VDEB6,VDEB7
,VDEB8,VDEB9,SL350 ) $
RB400( UN021 ) = EQU10 ( VC9,VC8,VC7,VC6,VC5,VC4
,VC3,VC2,VC1,VC0,UN009,UN008,UN007
,UN006,UN005,UN004,UN003,UN002,UN001,UN
) $
RB401( UN023 ) = EQU10 ( UN010,UN011,UN012,UN013,UN014,UN015
,UN016,UN017,UN018,UN019,VC9,VC8,VC7
,VC6,VC5,VC4,VC3,VC2,VC1,VC0
) $
RB402( VPUI, ) = FJK2 ( UN021,UN023,HSYNC,NMR ) $
RB403( ,VPLI ) = FJK2 ( UN023,UN021,UN024,NMR ) $
RB404( UN024 ) = IV ( HSYNC ) $
RB228( VPL ) = NR3 ( VPLI,DSPTD2,SL480 ) $
RB227( VPU ) = NR3 ( VPUI,DSPTD2,SL480 ) $
RB76( NMR ) = IV ( VSYNC ) $
END : MODULE $
MODULE : HVC1/// $
INPUTS :
CLLLOWL,DSPTD2,LCRCL,CR09D3,SL350,HC0,HC1,HC2,HC3,HC4,HC5,HC6
,HC7,T400B0,T400B1,T400B2,T400B3,T400B4,TA350B0,TA350B1,TA350B2
,TA350B3,TA350B4,TB350B0,TB350B1,TB350B2,TB350B3,TB350B4,G400B0
,G400B1,G400B2,G400B3,G400B4,G400B5,G400B6,G350B0,G350B1,G350B2
,G350B3,G350B4,G350B5,G350B6,HPDS0,HPDS1,HPDS2,HPDS3,HPDS4,HPDS5
,HPDS6,HPDS7,HPDE0,HPDE1,HPDE2,HPDE3,HPDE4,HPDE5,HPDE6,HPDE7,VDSPLYE
,GRAPHICS,HSYNC,DADTSEL,DUALPLD,VPU,VPL,VDE,NRESET,MASKH,MASKL
,CLLLOW,CCC,DCK2PNL,SL480N,B4B1001,CHRCLK,AHCRN,SSS
$
OUTPUTS :
NKILL1I,NKILL1,STRCHM,STRCHP,EQHDES,EQHDEE,STRCHML,STRCHPL,NKILLLOW
,VPDISP0,SL480
$
DESCRIPTION : MODULE FOR HVC1 $
LEVEL : FUNCTION $
USE :
MUX21HP /// MASTER
,IV /// MASTER
,SEL510 ///
,SEL714 ///
,SEL48 ///
,YFD1 /// MASTER
,TCNT4 ///
,HADD4 ///
,EQU4N ///
,YFD4 /// MASTER
,A06 /// MASTER
,A01 /// MASTER
,NR3 /// MASTER
,NR4 /// MASTER
,FT2 /// MASTER
,ND3 /// MASTER
,LDCLCNT4 ///
,EQU4P ///
,FJK2 /// MASTER
,FJK2S /// MASTER

```

,YFD2 /// MASTER
,AO1P /// MASTER
,ND4 /// MASTER
,SEL816 ///
,LDCLCNT7 ///
,MUX21L /// MASTER
,ND2 /// MASTER
,AN2 /// MASTER
,IVP /// MASTER

\$

DEFINE :

TCOMP3(CLTXC) = MUX21HP (CLLCLOW,CLLCLOWL,M10Z) \$
RB130(DSPTD2N) = IV (DSPTD2) \$
U1(T350B0,T350B1,T350B2,T350B3,T350B4) = SEL510 (TB350B0
,TB350B1
,TB350B2,TB350B3,TB350B4,TA350B0,TA350B1,TA350B2,TA350B3
,TA350B4,CR09D3) \$
U2(U2Y0,U2Y1,U2Y2,U2Y3,U2Y4) = SEL510 (T400B0,T400B1
,T400B2,T400B3,T400B4,T350B0,T350B1,T350B2,T350B3
,T350B4,SL350) \$
U3(U3Y0,U3Y1,U3Y2,U3Y3,STRI,DEL,COM
) = SEL714 (G400B0,G400B1,G400B2,G400B3,G400B4,G400B5,G350B0
,G350B1,G350B2,G350B3,G350B4,G350B5,G400B6,G350B6
,SL350) \$
U5(U5Y0,U5Y1,U5Y2,U5Y3) = SEL48 (U2Y0,U2Y1,U2Y2
,U2Y3,U3Y0,U3Y1,U3Y2,U3Y3,M11Z) \$
RB40(,A14QN) = YFD1 (DUALPLD,A41Z) \$
U4(U4Q0,,U4Q1,,U4Q2,,U4Q3
,) = TCNT4 (HSYNC,A21Z) \$
U8(U8S0,U8S1,U8S2,U8S3,) = HADD4 (U5Y0,U5Y1
,U5Y2,U5Y3,A45Z) \$
U9(U9EQN) = EQU4N (A44Y1,A44Y2,A44Y3,U8S0,U8S1,U8S2
,U8S3,A44Y0) \$
U14(U14Q,U14QN) = YFD4 (U9EQN,HSYNC,VDSPLYEH) \$
A47(A47Z) = IV (U9EQN) \$
A22(NKILL1I) = A06 (M10Z,U15Q,VPU) \$
A21(A21Z) = A01 (M10Z,U15QN,A42QN,U14QN) \$
A30(STRCHML) = NR3 (A46QN,U18Z,STR) \$
M10(M10Z) = NR4 (U2Y4,GRAPHICS,SL480,DSPTD2) \$
A31(STRCHPL) = NR3 (A46QN,DEL,STR) \$
U13(U13Q,) = FT2 (U16Z,VDSPLYEH) \$
U16(U16ZI) = ND3 (U14QN,COM,M11Z) \$
A23(NKILLLOW) = A06 (M10Z,A48Q,VPL) \$
A43(A43Q0,A43Q1,A43Q2,A43Q3) = LDCLCNT4 (U4Q0,U4Q1,U4Q2
,U4Q3,DUALPLD,A54Z,A24Z) \$
U18(U18Z) = IV (DEL) \$
U6(EQHDES) = EQU8P (HPDS0,ZHC0,HPDS1,ZHC1,HPDS2,ZHC2
,HPDS3,ZHC3,HPDS4,ZHC4,HPDS5,ZHC5,HPDS6
,ZHC6,HPDS7,ZHC7,DCK2PNL) \$
U7(EQHDEE) = EQU8P (HC0,HPDE0,HC1,HPDE1,HC2,HPDE2
,HC3,HPDE3,HC4,HPDE4,HC5,HPDE5,HC6
,HPDE6,HC7,HPDE7,DCK2PNL) \$
A44(A44Y0,A44Y1,A44Y2,A44Y3) = SEL48 (U4Q0,U4Q1,U4Q2
,U4Q3,A43Q0,A43Q1,A43Q2,A43Q3,HSYNC) \$
U15(U15Q,U15QN) = FJK2 (LM,A47Z,HSYNC,VDSPLYEH) \$
A41(A41Z) = IV (HSYNC) \$
A58(A58Q,) = FJK2S (CCC,CCC,A13Z,NRESET,U13Q
,DUALPLD) \$
A45(A45Z) = MUX21HP (U13Q,A58Q,HSYNC) \$
A46(A46Q,A46QN) = YFD2 (A47Z,A54Z,VDE) \$
A48(A48Q,A48QN) = FJK2S (CM,A47Z,A54Z,NRESET,U15Q

```

    ,DUALPLD ) $
A24( A24Z ) = A01P ( M10Z,A48QN,RESET,A46Q ) $
Z10( STR ) = ND4 ( STRI,M11Z,SL480N,DSPTD2N ) $
A32( STRCHM ) = NR3 ( U14Q,U18Z,STR ) $
A33( STRCHP ) = NR3 ( U14Q,DEL,STR ) $
RB90( ZHC0,ZHC1,ZHC2,ZHC3,ZHC4,ZHC5,ZHC6
    ,ZHC7 ) = SEL816 ( HC0,HC1,HC2,HC3,HC4,HC5
    ,HC6,HC7,SSS,AHC1,AHC2,AHC3,AHC4
    ,AHC5,AHC6,AHC7,DCK2PNL ) $
RB89( AHC1,AHC2,AHC3,AHC4,AHC5,AHC6,AHC7
    ) = LDCLCNT7 ( HC1,HC2,HC3,HC4,HC5,HC6,HC7
    ,B4B1001,CHRCLK,AHCR ) $
A55( VDEHL, ) = YFD2 ( VDE,A41Z,NRESET ) $
A52( VPDISP0 ) = MUX21L ( NKILL1I,NKILLLOW,DADTSEL ) $
RB38( A12Z ) = ND3 ( COM,M11Z,A46Q ) $
A42( VDSPLYEH,A42QN ) = YFD1 ( VDSPLYE,A41Z ) $
RB39( A13Z ) = ND2 ( A12Z,A14QN ) $
A54( A54Z ) = ND2 ( HSYNC,VDEHL ) $
A53( RESET ) = IV ( NRESET ) $
A49( U16Z ) = ND2 ( VDSPLYEH,U16ZI ) $
A40( LM ) = AN2 ( MASKH,LCRCL ) $
A57( CM ) = AN2 ( MASKL,CLTXC ) $
A51( NKILL1, ) = YFD1 ( NKILL1I,HSYNC ) $
A56( SL480 ) = IV ( SL480N ) $
M11( M11Z ) = IVP ( M10Z ) $
RB226( AHCR ) = AN2 ( AHCRN,NRESET ) $
END : MODULE $
MODULE : FLAGB/// $
INPUTS :
    CR09D7,SR01D0,COMPTIEN,PD640,PD720,PL200,PL350,PL400,PL480,CR01D5
    ,SR01D3,GRAPHICS,SL200N,CR07D1,CR12D7,CR12D6
$
OUTPUTS :
    NT128,N89BERT,SDOUBLIN,DCK2DIV,SL480N
$
DESCRIPTION : MODULE FOR FLAGB $
LEVEL : FUNCTION $
USE :
    A06 /// MASTER
    ,NR3 /// MASTER
    ,NR2 /// MASTER
    ,IV /// MASTER
    ,OR2 /// MASTER
    ,ND4 /// MASTER
$
DEFINE :
    RB398( U4Z ) = A06 ( COMPTIEN,PD640,SR01D0 ) $
    RB399( U1Z ) = NR3 ( UN004,GRAPHICS,UN000 ) $
    RB400( U5Z ) = NR3 ( UN002,UN000,SL200N ) $
    RB401( UN001 ) = A06 ( COMPTIEN,CR01D5,SR01D3 ) $
    RB402( NT128 ) = NR2 ( U4Z,U1Z ) $
    RB403( UN002 ) = NR3 ( PL350,PL400,PL480 ) $
    DBL1( SDBLN ) = IV ( CR09D7 ) $
    DBL2( SDBL ) = NR2 ( SDBLN,PL200 ) $
    U7( SDOUBLIN ) = OR2 ( SDBL,U5Z ) $
    RB404( DCK2DIV ) = IV ( UN001 ) $
    RB405( UN004 ) = IV ( PD720 ) $
    RB406( N89BERT ) = IV ( NT128 ) $
    RB407( UN000 ) = IV ( COMPTIEN ) $
    RB408( SL480N ) = ND4 ( COMPTIEN,CR07D1,CR12D7,CR12D6 ) $
END : MODULE $

```


MODULE : DPC/// \$

INPUTS :

NRESET, ELC4, ELC3, ELC2, ELC1, ELC0, LOWVCINC, EVCLD, EVC9, EVC8, EVC7
, EVC6, EVC5, EVC4, EVC3, EVC2, EVC1, EVC0, LOWADEN, DADINC, DADLD, SADCLN
, SADLDN, OFST7, OFST6, OFST5, OFST4, OFST3, OFST2, OFST1, OFST0, OFSTADJ
, LADCLK, LAD15, LAD14, LAD13, LAD12, LAD11, LAD10, LAD9, LAD8, LAD7, LAD6
, LAD5, LAD4, LAD3, LAD2, LAD1, LAD0, EDAD15, EDAD14, EDAD13, EDAD12, EDAD11
, EDAD10, EDAD9, EDAD8, EDAD7, EDAD6, EDAD5, EDAD4, EDAD3, EDAD2, EDAD1
, EDAD0, MAXSL0, MAXSL1, MAXSL2, MAXSL3, MAXSL4, ELCLD, LOWLCINC, DOTCLK
, HSYNC, PAGE2, NMR, C3C8Q, LCOMP, NCHRCLK, FIX1Z, ROWCHNG, CSRSTART, CCC
, CURDSPIN, C5D601, ROWMSK, VDEL, C4F1Q, C3F17Q, C4G1301, VPU, VCNTRSET
, CHRCLK, DUALPNL, DSPTD2

\$

OUTPUTS :

CLLLOW, FB7QN, PDAD0, PDAD1, PDAD2, PDAD3, PDAD4, PDAD5, PDAD6, PDAD7
, PDAD8, PDAD9, PDAD10, PDAD11, PDAD12, PDAD13, PDAD14, PDAD15, PVC0, PVC1
, PVC2, PVC3, PVC4, PVC5, PVC6, PVC7, PVC8, PVC9, PLC0, PLC1, PLC2, PLC3, PLC4
, PDAD14P, CLLLOWL, CURDSP, ULINE, CVC0, CVC1, CVC2, CVC3, CVC4, CVC5, CVC6
, CVC7, CVC8, CVC9

\$

DESCRIPTION : MODULE FOR DPC \$

LEVEL : FUNCTION \$

USE :

YFD1 /// MASTER
, B5IP /// MASTER
, DFF16 ///
, DADADD16 ///
, SEL1632 ///
, DFFCL16A ///
, LDCNT16 ///
, LDCLCNTA ///
, SEL1020 ///
, ND2 /// MASTER
, NR2 /// MASTER
, LDCLCNT5 ///
, SEL510 ///
, EQU5 ///
, YFD2 /// MASTER
, AN3 /// MASTER
, NR2P /// MASTER
, OR2 /// MASTER
, IV /// MASTER
, FD1P /// MASTER
, A07P /// MASTER
, FD2S /// MASTER
, FJK2S /// MASTER
, MUX21HP /// MASTER
, MUX21L /// MASTER
, NR4P /// MASTER
, A06 /// MASTER
, ND3 /// MASTER
, ALTCNTA ///

\$

DEFINE :

RB556(INC1P2D,) = YFD1 (INC1PD, DOTCLK) \$
RB380(ADDCLOW) = B5IP (ADDCLOWI) \$
ULMOD1(UULCLK, LULCLK) = YFD1 (A20Z, CHRCLK) \$
RB36(A10Q0, A10Q1, A10Q2, A10Q3, A10Q4, A10Q5, A10Q6
, A10Q7, A10Q8, A10Q9, A10Q10, A10Q11, A10Q12, A10Q13
, A10Q14, A10Q15) = DFF16 (LAD0, LAD1, LAD2, LAD3, LAD4
, LAD5, LAD6, LAD7, LAD8, LAD9, LAD10, LAD11

,LAD12,LAD13,LAD14,LAD15,LADCLK) \$

RB37(A11Q0,A11Q1,A11Q2,A11Q3,A11Q4,A11Q5,A11Q6
,A11Q7,A11Q8,A11Q9,A11Q10,A11Q11,A11Q12,A11Q13
,A11Q14,A11Q15) = DADADD16 (IDAD0,IDAD1,IDAD2,IDAD3,IDAD4
,IDAD5,IDAD6,IDAD7,IDAD8,IDAD9,IDAD10,IDAD11
,IDAD12,IDAD13,IDAD14,IDAD15,OFSTADJ,OFST0,OFST1
,OFST2,OFST3,OFST4,OFST5,OFST6,OFST7) \$

RB38(A12Y15,A12Y14,A12Y13,A12Y12,A12Y11,A12Y10,A12Y9
,A12Y8,A12Y7,A12Y6,A12Y5,A12Y4,A12Y3,A12Y2
,A12Y1,A12Y0) = SEL1632 (A10Q0,A10Q1,A10Q2,A10Q3,A10Q4
,A10Q5,A10Q6,A10Q7,A10Q8,A10Q9,A10Q10,A10Q11
,A10Q12,A10Q13,A10Q14,A10Q15,A11Q0,A11Q1,A11Q2
,A11Q3,A11Q4,A11Q5,A11Q6,A11Q7,A11Q8,A11Q9
,A11Q10,A11Q11,A11Q12,A11Q13,A11Q14,A11Q15,SADLDN
) \$

RB39(IDAD0,IDAD1,IDAD2,IDAD3,IDAD4,IDAD5,IDAD6
,IDAD7,IDAD8,IDAD9,IDAD10,IDAD11,IDAD12,IDAD13
,IDAD14,IDAD15) = DFFCL16A (A12Y0,A12Y1,A12Y2,A12Y3,A12Y4
,A12Y5,A12Y6,A12Y7,A12Y8,A12Y9,A12Y10,A12Y11
,A12Y12,A12Y13,A12Y14,A12Y15,ADDCLOW,SADCLN) \$

RB40(IIDAD0,IIDAD1,IIDAD2,IIDAD3,IIDAD4,IIDAD5,IIDAD6
,IIDAD7,IIDAD8,IIDAD9,IIDAD10,IIDAD11,IIDAD12,IIDAD13
,IIDAD14,IIDAD15) = LDCNT16 (IDAD0,IDAD1,IDAD2,IDAD3,IDAD4
,IDAD5,IDAD6,IDAD7,IDAD8,IDAD9,IDAD10,IDAD11
,IDAD12,IDAD13,IDAD14,IDAD15,A16Q,A17Z) \$

A32(IVC0,IVC1,IVC2,IVC3,IVC4,IVC5,IVC6
,IVC7,IVC8,IVC9,,) = LDCLCNTA (EVC0,EVC1
,EVC2,EVC3,EVC4,EVC5,EVC6,EVC7,EVC8
,EVC9,EVCLD,LOWVCINC,NMR) \$

A22(PVC0,PVC1,PVC2,PVC3,PVC4,PVC5,PVC6
,PVC7,PVC8,PVC9) = SEL1020 (EVC0,EVC1,EVC2,EVC3
,EVC4,EVC5,EVC6,EVC7,EVC8,EVC9,IVC0
,IVC1,IVC2,IVC3,IVC4,IVC5,IVC6,IVC7
,IVC8,IVC9,A23Q) \$

RB41(PDAD15,PDAD14P,PDAD13,PDAD12,PDAD11,PDAD10,PDAD9
,PDAD8,PDAD7,PDAD6,PDAD5,PDAD4,PDAD3,PDAD2
,PDAD1,PDAD0) = SEL1632 (EDAD0,EDAD1,EDAD2,EDAD3,EDAD4
,EDAD5,EDAD6,EDAD7,EDAD8,EDAD9,EDAD10,EDAD11
,EDAD12,EDAD13,EDAD14,EDAD15,IIDAD0,IIDAD1,IIDAD2
,IIDAD3,IIDAD4,IIDAD5,IIDAD6,IIDAD7,IIDAD8,IIDAD9
,IIDAD10,IIDAD11,IIDAD12,IIDAD13,IIDAD14,IIDAD15,LOWADEN
) \$

SS00(,NT35) = YFD1 (LOWLCINC,NCHRCLK) \$

SS0(,INC1D) = YFD1 (NT35,CHRCLK) \$

SS1(INC1P) = ND2 (NT35,INC1D) \$

SS2(INC1PD,) = YFD1 (INC1P,DOTCLK) \$

SS3(A30Q) = NR2 (INC1P2D,ROWMSK) \$

A29(ILC0,ILC1,ILC2,ILC3,ILC4,) = LDCLCNT5 (ELC0
,ELC1,ELC2,ELC3,ELC4,ELCLD,A30Q,LOWCLM
) \$

A28(PLC0,PLC1,PLC2,PLC3,PLC4) = SEL510 (ELC0,ELC1
,ELC2,ELC3,ELC4,ILC0,ILC1,ILC2,ILC3
,ILC4,ROWSEL) \$

A26(CLLCLOW) = EQU5 (MAXSL3,MAXSL2,MAXSL1,MAXSL0,MAXSL4,ILC0
,ILC1,ILC2,ILC3,ILC4) \$

A27(CLLCLOWL,) = YFD2 (CLLCLOW,A30Q,FIX1Z) \$

A20(A20Z) = NR2 (A23QN,HSYNC) \$

A35(LOWCL) = AN3 (NMR,FB19Z,FB6Z) \$

A21(ADDCLOWI) = NR2P (C3C8Q,CLLCLOWL) \$

RB44(PDAD14) = OR2 (PDAD14P,PAGE2) \$

A23(A23Q,A23QN) = YFD1 (HSYNC,NCHRCLK) \$

A24(A24Q,) = YFD2 (LCOMP,A23QN,A25Z) \$

```

A25( A25Z ) = IV ( HSYNC ) $
RB42( A16Q,A16QN ) = FD1P ( DADLD,DOTCLK ) $
RB43( A17Z ) = A07P ( A16QN,DADLD,A19Z ) $
A19( A19Z ) = IV ( DADINC ) $
FB19( FB19Z ) = ND2 ( A24Q,FB18QN ) $
FB18( ,FB18QN ) = YFD2 ( A24Q,CHRCLK,A25Z ) $
A36( LOWCLM ) = OR2 ( LOWCL,ELCLD ) $
FB7( FB7QN,PPP ) = YFD1 ( A23Q,NCHRCLK ) $
FB8( FB8Q, ) = FD2S ( C4G1301,FB25Z,FB24Z,C4F1Q,ELCLD
) $
FB9( FB9Q, ) = YFD2 ( CCC,FB8Q,LOWCL ) $
A40( FB10Z ) = NR2 ( A38Z,FB9Q ) $
FB11( FB11Q, ) = FJK2S ( FB10Z,FB8Q,FB25Z,FB24Z,C3F17Q
,ELCLD ) $
FB12( CURDSP ) = MUX21HP ( CURDSPIN,FB11Q,LOWADEN ) $
FB13( ,FB13QN ) = YFD1 ( C5D601,UULCLK ) $
FB15( ,FB15QN ) = YFD1 ( C5D601,LULCLK ) $
A45( ULINE ) = MUX21L ( FB13QN,FB15QN,LOWADEN ) $
FB6( FB6Z ) = ND2 ( A23Q,CLLCLOWL ) $
A42( ROWSEL ) = NR4P ( A41Z,DUALPNLN,DSPTD2,A20Z ) $
A41( A41Z ) = A06 ( A23QN,FB7QN,ROWCHNG ) $
FB21( DUALPNLN ) = IV ( DUALPNL ) $
A90( A90QN, ) = YFD2 ( VPU,A25Z,NRESET ) $
A39( FB25Z ) = ND3 ( FB7QN,VDEL,A34ZD ) $
A37( FB24Z ) = OR2 ( LOWCL,ELCLD ) $
A34( A34Z ) = IV ( ROWMSK ) $
A48( AVC0,AVC1,AVC2,AVC3,AVC4,AVC5,AVC6
,AVC7,AVC8,AVC9 ) = ALTCNTA ( HSYNC,A46Z ) $
A50( CVC0,CVC1,CVC2,CVC3,CVC4,CVC5,CVC6
,CVC7,CVC8,CVC9 ) = SEL1020 ( AVC0,AVC1,AVC2,AVC3
,AVC4,AVC5,AVC6,AVC7,AVC8,AVC9,BVC0
,BVC1,BVC2,BVC3,BVC4,BVC5,BVC6,BVC7
,BVC8,BVC9,A23Q ) $
A49( BVC0,BVC1,BVC2,BVC3,BVC4,BVC5,BVC6
,BVC7,BVC8,BVC9,, ) = LDCLCNTA ( AVC0,AVC1
,AVC2,AVC3,AVC4,AVC5,AVC6,AVC7,AVC8
,AVC9,EVCLD,LOWVCINC,NMR ) $
A46( A46Z ) = NR2P ( A47Z,A90QN ) $
A38( A38Z ) = IV ( CSRSTART ) $
A47( A47Z ) = IV ( VCNTRSET ) $
PATCH0( A34ZQ, ) = YFD1 ( A34Z,PPP ) $
PATCH1( A34ZD ) = OR2 ( A34ZQ,ELCLD ) $
END : MODULE $
MODULE : DADC01/// $
INPUTS :
DOTCLK,VDE,DUALPNL,DOUBLE,UPDBL,STRCHML,HSYNC,NMR,SPLITEQ,STRCHPL
,ACCLA,NKILL1,NKILLLOW
$
OUTPUTS :
U4Z,DADTSEL,NDADTSEL,HSYNCPNL,DUALPLD,SADLDCLK,VCNTLOW,SADCLN
,UACCLA,LACCLA,HVCVDE,VDEL,MASKL,ROWMSK,VDELN
$
DESCRIPTION : MODULE FOR DADC01 $
LEVEL : FUNCTION $
USE :
YFD1 /// MASTER
,AN2 /// MASTER
,B5IP /// MASTER
,A01P /// MASTER
,IV /// MASTER
,IVP /// MASTER
,ND2 /// MASTER

```

```
,FT2 /// MASTER
,A07P /// MASTER
,ND2P /// MASTER
,B4IP /// MASTER
,YFD2 /// MASTER
,FD2P /// MASTER
,FJK2S /// MASTER
,NR3 /// MASTER
,FD2 /// MASTER
,A06 /// MASTER
,ND3 /// MASTER
,IVAP /// MASTER
,NR2P /// MASTER
,FD4 /// MASTER
,MUX21L /// MASTER
```

\$

DEFINE :

```
RB495( A10ZZ, ) = YFD1 ( A10Z,DOTCLK ) $
RB494( AAB ) = AN2 ( U4Z,A14Q ) $
RB379( SADLDCLK ) = B5IP ( SADLDCLI ) $
RB486( A23Z ) = A01P ( MASKLI,STRCHMLD,STRCHPL,KILLLOW ) $
RB485( STRCHMLD ) = IV ( STRCHML ) $
M13( UACCLA ) = IVP ( K51Z ) $
M12( LACCLA ) = IVP ( K50Z ) $
K51( K51Z ) = ND2 ( A25Q,ACCLA ) $
K50( K50Z ) = ND2 ( A25QN,ACCLA ) $
U1( U1Q,U1QN ) = FT2 ( A10Z,U1RES ) $
M11( NDADTSEL ) = A07P ( U1QN,HSYNCPNL,DUALPNL ) $
U4( U4Z ) = A07P ( SADLDCLK,U1Q,DUALPNL ) $
M10( NHSPNL ) = ND2P ( U4Z,HSYNC ) $
RB36( A10Z ) = IVP ( HSYNC ) $
A27( DADTSEL ) = B4IP ( NDADTSEL ) $
M15( M15Z ) = IV ( ACCLA ) $
RB37( A11Q, ) = YFD2 ( VDE,HSYNC,NMR ) $
RB39( SADCLN, ) = FD2P ( M21Z,NHSPNL,NMR ) $
M40( NDUALPLD ) = ND2 ( A11Q,NVDE ) $
RB40( A14Q, ) = YFD2 ( VDE,NHSPNL,NMR ) $
RB38( ,SADLDCLI ) = FD2P ( DUALPLD,A10Z,NMR ) $
RB44( VCNTLOW ) = ND2P ( HSYNCPNL,A14Q ) $
RB42( MASKLI,MASKL ) = FJK2S ( M24Z,M24Z,VCNTLOWD,M31Z,UPDBLM
,DUALPLDD ) $
M24( M24Z ) = NR3 ( STRCHPL,STRCHML,NDOUBLE ) $
M25( NDOUBLE ) = IV ( DOUBLE ) $
A26( HSYNCPNL ) = B4IP ( NHSPNL ) $
RB41( VDEL,VDELN ) = FD2 ( VDE,HSYNCPNL,NMR ) $
A20( DUALPLDD, ) = YFD1 ( DUALPLD,HSYNC ) $
M43( HVCVDE ) = ND2 ( VDELN,NVDE ) $
M42( U1RES ) = A06 ( NVDE,VDELN,NNMR ) $
M20( VCNTLOWD ) = A07P ( AAB,SADLDCLK,HSYNC ) $
M21( M21Z ) = ND3 ( SPLITEQ,VDE,VDEL ) $
A29( DUALPLD ) = IVAP ( NDUALPLD ) $
A24( ROWMSK ) = NR2P ( A23Z,DUALPLD ) $
M31( M31Z ) = A06 ( VDE,KILLLOW,NNMR ) $
A25( A25Q,A25QN ) = FD4 ( NDADTSEL,M15Z,A10ZZ ) $
M30( KILLLOW ) = MUX21L ( NKILLLOW,NKILLLOY,DOUBLE ) $
A21( NKILLLOX, ) = FD4 ( NKILLLOW,NHSPNL,NMR ) $
A22( NKILLLOY ) = AN2 ( NKILLLOW,NKILLLOX ) $
M29( NNMR ) = IV ( NMR ) $
M34( NVDE ) = IV ( VDE ) $
A19( UPDBLM ) = ND2 ( UPDBL,NKILL1 ) $
```

END : MODULE \$

MODULE : CDAL01/// \$

INPUTS :

FRC1,FRC0,CF4,CF3,B5,B4A,B3,B2,B1,B0,G5,G4,G3,G2,G1,G0,R5,R4
,R3,R2,R1,R0,XR51D7,SOFF,PLASMA,XR54D0,PRIMN3,PRIMN2,PRIMN1,PRIMN0
,PRIMM3,PRIMM2,PRIMM1,PRIMM0,CF2,CF1,CF0,PSKEW2,PSKEW1,PSKEW0
,ATTA5,MCP1,MCP0,AR10D6,PWM1,PWM0,CD1,CD0,VSYNC,NRESET,DEPANEL
,DOTCLK,C3A10Q,TXSHIFT,ATT30Q0N,VPDISP0,LC0,DCLK,SMN,N320DOT,SSS

\$

OUTPUTS :

VDOUT0,VDOUT1,VDOUT2,VDOUT3,VDOUT4,VDOUT5,VDOUT6,VDOUT7,VDOUT8
,VDOUT9,VDOUT10,VDOUT11,VDOUT12,VDOUT13,VDOUT14,VDOUT15,SHFCLK
,BLANKP,BLNKPNL

\$

DESCRIPTION : MODULE FOR CDAL01 \$

LEVEL : FUNCTION \$

USE :

MUX21HP /// MASTER
,FRCCONT ///
,FPATGEN ///
,B4I /// MASTER
,LATCH8M ///
,DFF8 ///
,FD1P /// MASTER
,YMUX24HP /// MASTER
,YFD1 /// MASTER
,MUX21L /// MASTER
,ND5 /// MASTER
,ND2 /// MASTER
,IV /// MASTER
,NR3 /// MASTER
,A02 /// MASTER
,SKEWCOMP ///
,SKEWCMPC ///
,NR2 /// MASTER
,DEC4M ///
,DFF16 ///
,SEL1632 ///
,DCL16SEL ///
,AN2 /// MASTER
,SEL816 ///
,AN3 /// MASTER
,MUX21H /// MASTER
,SEL416 ///
,SEL832 ///
,CAND24P ///
,FFD3P ///
,FFD4P ///
,FFDS4P ///
,YFD2 /// MASTER
,B4IP /// MASTER
,OR2 /// MASTER
,MUX21LP /// MASTER
,AN2P /// MASTER
,A07 /// MASTER
,NR2P /// MASTER

\$

DEFINE :

RB602(VDOUT15) = MUX21HP (VDOUT15I,SHFCLK2,N4B2SHF) \$
BLUFRC(BPWM3,BPWM2,BPWM1,BPWM0,BFRC0) = FRCCONT (CF4,AR10D6
,CF3,N3FRCPAT,NT127,NT126,FRC0,FRC1,PWM0

```

, PWM1, DITHER2, DITHER1, DITHER0, PT11110, PT11101, PT11100
, PT11011, PT11010, PT11001, PT11000, PT10110, PT10101, PT10100
, PT10011, PT10010, PT10001, PT10000, PTBB111A, PT01110, PT01101
, PT01100, PT01011, PT01010, PT01001, PT01000, PTAA111A, PT00110
, PT00101, PT00100, PT00011, PT00010, PT00001, PT00000, B5
, B4A, B3, B2, B1, B0, FRCLC0, FRCDC0
, DOTCLK, SSS ) $
GRNFRC( GPWM3, GPWM2, GPWM1, GPWM0, GFRC0 ) = FRCCONT ( CF4, AR10D6
, CF3, N3FRCPAT, NT127, NT126, FRC0, FRC1, PWM0
, PWM1, DITHER2, DITHER1, DITHER0, PT11110, PT11101, PT11100
, PT11011, PT11010, PT11001, PT11000, PT10110, PT10101, PT10100
, PT10011, PT10010, PT10001, PT10000, PTBB111A, PT01110, PT01101
, PT01100, PT01011, PT01010, PT01001, PT01000, PTAA111A, PT00110
, PT00101, PT00100, PT00011, PT00010, PT00001, PT00000, G5
, G4, G3, G2, G1, G0, FRCLC0, FRCDC0
, DOTCLK, SSS ) $
REDFRC( RPWM3, RPWM2, RPWM1, RPWM0, RFRC0 ) = FRCCONT ( CF4, AR10D6
, CF3, N3FRCPAT, NT127, NT126, FRC0, FRC1, PWM0
, PWM1, DITHER2, DITHER1, DITHER0, PT11110, PT11101, PT11100
, PT11011, PT11010, PT11001, PT11000, PT10110, PT10101, PT10100
, PT10011, PT10010, PT10001, PT10000, PTBB111A, PT01110, PT01101
, PT01100, PT01011, PT01010, PT01001, PT01000, PTAA111A, PT00110
, PT00101, PT00100, PT00011, PT00010, PT00001, PT00000, R5
, R4, R3, R2, R1, R0, FRCLC0, FRCDC0
, DOTCLK, SSS ) $
RB668( N3FRCPAT, NT127, NT126, PT11110, PT11101, PT11100, PT11011
, PT11010, PT11001, PT11000, PT10110, PT10101, PT10100, PT10011
, PT10010, PT10001, PT10000, PTBB111A, PT01110, PT01101, PT01100
, PT01011, PT01010, PT01001, PT01000, PTAA111A, PT00110, PT00101
, PT00100, PT00011, PT00010, PT00001, PT00000, FRCDC0, FRCLC0
, DITHER2, DITHER1, DITHER0 ) = FPATGEN ( FRC0, CF2, CF1, CF0
, PRIMN3, PRIMN2, PRIMN1, PRIMN0, PRIMM3, PRIMM2, PRIMM1
, PRIMM0, SSS, VSYNC, NRESET, LC0, CNTCLN, DOTCLK
) $
RB667( T3N ) = B4I ( T3 ) $
RB666( T2N ) = B4I ( T2 ) $
RB665( T1N ) = B4I ( T1 ) $
RB664( T0N ) = B4I ( T0 ) $
RB663( N42DDI0, N42DDI1, N42DDI2, N42DDI3, N42DDI4, N42DDI5, N42DDI6
, N42DDI7 ) = LATCH8M ( N42D0, N42D1, N42D2, N42D4, N42D5, N42D6
, N42D7, DOTCLK, N42D3 ) $
RB600( N42DD0, N42DD1, N42DD2, N42DD3, N42DD4, N42DD5, N42DD6
, N42DD7 ) = DFF8 ( N42DDI0, N42DDI1, N42DDI2, N42DDI3, N42DDI4
, N42DDI5
, N42DDI6, N42DDI7, SHFCLK2S ) $
RB599( SHFCLK2S, ) = FD1P ( T0, DOTCLK ) $
RB598( PD4I, PD5I, PD6I, PD7I ) = YMUX24HP ( N412D4, N414D4, N412D5
, N414D5, N412D6, N414D6, N412D7, N414D7, CD1 ) $
RB597( DEP7D, ) = YFD1 ( DEP6D, DOTCLK ) $
RB596( DEP6D, ) = YFD1 ( DEP5D, DOTCLK ) $
RB595( DEP5D, ) = YFD1 ( DEP4D, DOTCLK ) $
RB661( DEP4D, ) = YFD1 ( DEP3D, DOTCLK ) $
RB670( PDD8, PDD9, PDD10, PDD11, PDD12, PDD13, PDD14
, PDD15 ) = LATCH8M ( PD8, PD9, PD10, PD12, PD13, PD14
, PD15, DOTCLK, PD11 ) $
RB669( PDD0, PDD1, PDD2, PDD3, PDD4, PDD5, PDD6
, PDD7 ) = LATCH8M ( PD0, PD1, PD2, PD4, PD5, PD6
, PD7, DOTCLK, PD3 ) $
RB660( DEPANELC ) = MUX21L ( DEPANELB, DEPANELA, AR10D6 ) $
RB659( DEPANELB, ) = YFD1 ( DEPANELA, DOTCLK ) $
RB658( , DEPANELA ) = YFD1 ( DEPANEL, DOTCLK ) $
RB657( GFRC9, ) = YFD1 ( GFRC8, DOTCLK ) $

```

```

RB656( CLKMASK2 ) = ND5 ( MCP0,CD1,T3N,T2N,T1 ) $
RB655( CLKMASK1 ) = ND5 ( MCP0,CD0,T2N,T1N,T0 ) $
RB654( CLKMASK3 ) = ND2 ( CLKMASK1,CLKMASK2 ) $
RB652( CLKMASK, ) = YFD1 ( CLKMASK3,NDOTCLK ) $
RB651( RESET ) = IV ( NRESET ) $
RB650( M34Z ) = NR3 ( CLKMASK,RESET,M98Z ) $
RB649( U43ZI ) = A02 ( T0,CD0,T1,CD1 ) $
RB648( U43Z ) = IV ( U43ZI ) $
RB647( ,DEP1D ) = SKEWCOMP ( N320M13,DOTCLK,PSKEW2,PSKEW1,PSKEW0
,DEPANELC ) $
RB646( CNTCLN,DEP2D ) = SKEWCMPC ( DOTCLK,PSKEW2,PSKEW1
,PSKEW0,DEP1D
) $
RB645( DEP3D,DEP3DN ) = YFD1 ( DEP2D,DOTCLK ) $
RB644( DEP10D ) = MUX21L ( DEP2D,DEP7D,PWMN ) $
RB642( XU2,U2QN ) = YFD1 ( DEP12D,NDOTCLK ) $
RB641( DEP11D, ) = YFD1 ( DEP10D,DOTCLK ) $
RB640( ,DEP12D ) = YFD1 ( DEP11D,DOTCLK ) $
RB639( U2Q, ) = YFD1 ( DEP12D,DOTCLK ) $
RB638( BLNKPNL, ) = YFD1 ( U2Q,DOTCLK ) $
RB637( M23QI ) = NR2 ( DEP11D,DEP12D ) $
RB636( ,M23Q ) = YFD1 ( M23QI,NDOTCLK ) $
RB635( T0,T1,T2,T3,,,
, ) = DEC4M ( M23Q,DOTCLK ) $
RB634( SHFCLK2, ) = YFD1 ( DSHFCLK,DOTCLK ) $
RB633( DSHFCLK, ) = YFD1 ( M31Q,DOTCLK ) $
RB629( DL0,DL1,DL2,DL3,DL4,DL5,DL6
,DL7,DL8,DL9,DL10,DL11,DL12,DL13
,DL14,DL15 ) = DFF16 ( PDD0,PDD1,PDD2,PDD3,PDD4
,PDD5,PDD6,PDD7,PDD8,PDD9,PDD10,PDD11
,PDD12,PDD13,PDD14,PDD15,SHFCLK ) $
RB628( PLASMAN ) = IV ( PLASMA ) $
RB627( SRNPRN ) = ND2 ( PLASMA,SOFF ) $
RB626( SRNCLN ) = ND2 ( PLASMAN,SOFF ) $
RB625( PDA15,PDA14,PDA13,PDA12,PDA11,PDA10,PDA9
,PDA8,PDA7,PDA6,PDA5,PDA4,PDA3,PDA2
,PDA1,PDA0 ) = SEL1632 ( PDD0,PDD1,PDD2,PDD3,PDD4
,PDD5,PDD6,PDD7,PDD8,PDD9,PDD10,PDD11
,PDD12,PDD13,PDD14,PDD15,DL0,DL1,DL2
,DL3,DL4,DL5,DL6,DL7,DL8,DL9
,DL10,DL11,DL12,DL13,DL14,DL15,XR54D0
) $
RB624( PDB0,PDB1,PDB2,PDB3,PDB4,PDB5,PDB6
,PDB7,VDOOUT8,VDOOUT9,VDOOUT10,VDOOUT11,VDOOUT12,VDOOUT13
,VDOOUT14,VDOOUT15I ) = DCL16SEL ( PDA0,PDA1,PDA2,PDA3,PDA4
,PDA5,PDA6,PDA7,PDA8,PDA9,PDA10,PDA11
,PDA12,PDA13,PDA14,PDA15,SHFCLK,SRNCLN,SRNPRN
,XR51D7 ) $
RB623( PDC0,PDC1,PDC2,PDC3,PDC4,PDC5,PDC6
,PDC7 ) = DFF8 ( N42DD0,N42DD1,N42DD2,N42DD3,N42DD4,N42DD5
,N42DD6,N42DD7,DOTCLK ) $
RB622( N4B2SHF ) = AN2 ( MCP1,MCP0 ) $
RB621( VDOOUT0,VDOOUT1,VDOOUT2,VDOOUT3,VDOOUT4,VDOOUT5,VDOOUT6
,VDOOUT7 ) = SEL816 ( PDB0,PDB1,PDB2,PDB3,PDB4,PDB5
,PDB6,PDB7,PDC0,PDC1,PDC2,PDC3,PDC4
,PDC5,PDC6,PDC7,N4B2SHF ) $
RB619( PWMN ) = NR2 ( PWM0,PWM1 ) $
RB618( SELC2 ) = AN3 ( MCP1N,MCP0,CD1 ) $
RB617( MCP1N ) = IV ( MCP1 ) $
RB616( SELC0 ) = MUX21H ( CD0,MCP0,PWMN ) $
RB615( PD4,PD5,PD6,PD7 ) = SEL416 ( RFRC5,GFRC5,BFRC5
,EFRC5,BFRC4,EFRC4,BFRC5,EFRC5,GFRC6,RFRC6

```

,BFRC5,GFRC5,PD4I,PD5I,PD6I,PD7I,SELC0
, PWMN) \$

RB614(PD8,PD9,PD10,PD11) = SEL416 (RFRC3,GFRC3,BFRC3
,EFRC3,BFRC2,EFRC2,BFRC3,EFRC3,RFRC5,BFRC4
,GFRC4,RFRC4,N414D8,N414D9,N414D10,N414D11,SELC0
, PWMN) \$

RB613(PD0,PD1,PD2,PD3) = SEL416 (RFRC7,GFRC7,BFRC7
,EFRC7,BFRC6,EFRC6,BFRC7,EFRC7,BFRC7,GFRC7
,RFRC7,BFRC6,PDZ0,PDZ1,PDZ2,PDZ3,SELC0
, PWMN) \$

RB611(N42D0,N42D1,N42D2,N42D3,N42D4,N42D5,N42D6
,N42D7) = SEL832 (N42UD0,N42UD1,N42UD2,N42UD3,N42UD4,N42UD5
,N42UD6,N42UD7,BFRC5,GFRC4,RFRC3,BFRC3,GFRC2
,RFRC1,BFRC1,GFRC0,N42LD0,N42LD1,N42LD2,N42LD3
,N42LD4,N42LD5,N42LD6,N42LD7,RFRC6,BFRC6,GFRC5
,RFRC4,BFRC4,GFRC3,RFRC2,BFRC2,T3N,T1N
) \$

RB610(PD12,PD13,PD14,PD15) = CAND24P (N414D12,N414D13,N414D14
,N414D15,SELC2) \$

RB609(N411D0,N411D1,N411D2,N411D3) = YMUX24HP (N411DD0
,BFRC7,N411DD1
,RFRC6,N411DD2,GFRC6,N411DD3,BFRC6,T1N) \$

RB608(N414D15,N414D14,N414D13,N414D12,N414D11,N414D10,N414D9
,N414D8,N414D7,N414D6,N414D5,N414D4,N414D3,N414D2
,N414D1,N414D0) = SEL1632 (N414DD0,N414DD1,N414DD2
,N414DD3,N414DD4
,N414DD5,N414DD6,N414DD7,N414DD8,N414DD9,N414DD10,N414DD11
,N414DD12,N414DD13,N414DD14,N414DD15,BFRC5,RFRC4,GFRC4
,BFRC4,RFRC3,GFRC3,BFRC3,RFRC2,GFRC2,BFRC2
,RFRC1,GFRC1,BFRC1,RFRC0,GFRC0,BFRC0,T3N
) \$

RB606(N412D0,N412D1,N412D2,N412D3,N412D4,N412D5,N412D6
,N412D7) = SEL816 (N412DD0,N412DD1,N412DD2,N412DD3
,N412DD4,N412DD5
,N412DD6,N412DD7,GFRC6,BFRC6,RFRC5,GFRC5,BFRC5
,RFRC4,GFRC4,BFRC4,T2N) \$

RB605(N412DD0,N412DD1,N412DD2,N412DD3,N412DD4,N412DD5,N412DD6
,N412DD7) = SEL816 (RFRC7,GFRC7,BFRC7,RFRC6,GFRC6,BFRC6
,RFRC5,GFRC5,BFRC7,RFRC6,GFRC6,BFRC6,RFRC5
,GFRC5,BFRC5,RFRC4,T1N) \$

RB604(N42LD0,N42LD1,N42LD2,N42LD3,N42LD4,N42LD5,N42LD6
,N42LD7) = SEL816 (GFRC9,RFRC8,BFRC8,GFRC7,RFRC6,BFRC6
,GFRC5,RFRC4,BFRC8,GFRC7,RFRC6,BFRC6,GFRC5
,RFRC4,BFRC4,GFRC3,T2N) \$

RB603(RFRC8,,GFRC8,,BFRC8,) = FFD3P (DOTCLK
,RFRC7,GFRC7,BFRC7) \$

RB601(RFRC7,,GFRC7,,BFRC7,,EFRC7
,) = FFD4P (DOTCLK,RFRC6,GFRC6,BFRC6,EFRC6) \$

RB594(RFRC6,,GFRC6,,BFRC6,,EFRC6
,) = FFDS4P (DOTCLK,BPWM0,BPWM1,BPWM2,BPWM3,PWMN
,RFRC5,GFRC5,BFRC5) \$

RB653(RFRC5,,GFRC5,,BFRC5,,EFRC5
,) = FFD4P (DOTCLK,RFRC4,GFRC4,BFRC4,EFRC4) \$

RB643(RFRC4,,GFRC4,,BFRC4,,EFRC4
,) = FFDS4P (DOTCLK,GPWM0,GPWM1,GPWM2,GPWM3,PWMN
,RFRC3,GFRC3,BFRC3) \$

RB632(RFRC3,,GFRC3,,BFRC3,,EFRC3
,) = FFD4P (DOTCLK,RFRC2,GFRC2,BFRC2,EFRC2) \$

RB631(RFRC2,,GFRC2,,BFRC2,,EFRC2
,) = FFDS4P (DOTCLK,RPWM0,RPWM1,RPWM2,RPWM3,PWMN
,RFRC1,GFRC1,BFRC1) \$

RB630(N411DD0,N411DD1,N411DD2,N411DD3) = YMUX24HP (RFRC7


```

    ,GFRC7,GFRC7
    ,BFRC7,BFRC7,RFRC6,RFRC6,GFRC6,T0N ) $
RB620( N414DD15,N414DD14,N414DD13,N414DD12,N414DD11,N414DD10
    ,N414DD9
    ,N414DD8,N414DD7,N414DD6,N414DD5,N414DD4,N414DD3,N414DD2
    ,N414DD1,N414DD0 ) = SEL1632 ( RFRC7,GFRC7,BFRC7,RFRC6,GFRC6
    ,BFRC6,RFRC5,GFRC5,BFRC5,RFRC4,GFRC4,BFRC4
    ,RFRC3,GFRC3,BFRC3,RFRC2,GFRC6,BFRC6,RFRC5
    ,GFRC5,BFRC5,RFRC4,GFRC4,BFRC4,RFRC3,GFRC3
    ,BFRC3,RFRC2,GFRC2,BFRC2,RFRC1,GFRC1,T2N
    ) $
RB612( RFRC1,,GFRC1,,BFRC1, ) = FFD3P ( DOTCLK
    ,RFRC0,GFRC0,BFRC0 ) $
RB607( PDZ0,PDZ1,PDZ2,PDZ3 ) = SEL416 ( N411D0,N411D1,N411D2
    ,N411D3,N412D0,N412D1,N412D2,N412D3,N414D0,N414D1
    ,N414D2,N414D3,SSS,SSS,SSS,SSS,CD0
    ,CD1 ) $
RB593( N42UD0,N42UD1,N42UD2,N42UD3,N42UD4,N42UD5,N42UD6
    ,N42UD7 ) = SEL816 ( RFRC7,BFRC7,GFRC6,RFRC5,BFRC5,GFRC4
    ,RFRC3,BFRC3,GFRC6,RFRC5,BFRC5,GFRC4,RFRC3
    ,BFRC3,GFRC2,RFRC1,T2N ) $
RB493( M31Q, ) = YFD2 ( U43Z,DOTCLK,M34Z ) $
RB492( NDOTCLK ) = B4IP ( DOTCLK ) $
RB491( ,M29ZD ) = YFD1 ( M29Z,NDOTCLK ) $
RB507( SHFCLK ) = B4IP ( NSHF ) $
RB489( N320M13 ) = OR2 ( N320DOT,AR10D6 ) $
RB487( NSHF ) = MUX21LP ( M31Q,NODIVCLK,B33Z ) $
RB490( NODIVCLK ) = AN2P ( M29ZD,DOTCLK ) $
M98( M98Z ) = NR3 ( U2Q,SMN,M31Q ) $
M50( M50Z ) = ND2 ( ATTA5,M57QN ) $
M28( M28Z ) = A07 ( U2QN,U17QN,MCP0 ) $
M27( M27Z ) = ND2 ( T0,T1N ) $
U17( ,U17QN ) = YFD1 ( M27Z,NDOTCLK ) $
M29( M29Z ) = A07 ( SMN,XU2,M28Z ) $
M30( B33Z ) = NR2 ( CD0,CD1 ) $
C3A10D( C3A10QD, ) = YFD1 ( C3A10Q,DOTCLK ) $
M53( M53Q, ) = YFD1 ( C3A10QD,TXSHIFT ) $
M57( ,M57QN ) = YFD1 ( M56Q,DCLK ) $
M55( M55Z ) = MUX21L ( M53Q,M54Q,ATT30Q0N ) $
M56( M56Q, ) = YFD1 ( M55Z,TXSHIFT ) $
M54( M54Q, ) = YFD1 ( M53Q,TXSHIFT ) $
M59( M59Q, ) = YFD1 ( M58Q,DCLK ) $
M63( BLANKP ) = NR2P ( M59Q,VPDISP0 ) $
M58( M58Q, ) = YFD1 ( M50Z,DCLK ) $
END : MODULE $
MODULE : BTREGC01/// $
INPUTS :
    NRESET,N3D7WR2,R3D6Q0,R3D6Q1,R3D6Q2,B3D6Q3,B3D6Q4,B3D6Q5,B3D6Q6
    ,R3D6NQ0,R3D6NQ1,R3D6NQ2,B3D6NQ3,B3D6NQ4,B3D6NQ5,B3D6NQ7,DATAIN00
    ,DATAIN01,DATAIN02,DATAIN03,DATAIN04,DATAIN05,DATAIN06,DATAIN07
    ,SSS
$
OUTPUTS :
    R3D76EQ7,R3D76EQ6,R3D76EQ5,R3D76EQ4,R3D76EQ3,R3D76EQ2,R3D76EQ1
    ,R3D76EQ0,R3D76DQ7,R3D76DQ6,R3D76DQ5,R3D76DQ4,R3D76DQ3,R3D76DQ2
    ,R3D76DQ1,R3D76DQ0,DOUT0,DOUT1,DOUT2,DOUT3,DOUT4,DOUT5,DOUT6,DOUT7
    ,R3D750Q0,R3D750Q1,R3D750Q3,R3D750Q4,R3D750Q5,R3D750Q6,R3D750Q7
    ,R3D751Q0,R3D751Q1,R3D751Q2,R3D751Q3,R3D751Q4,R3D751Q5,R3D752Q0
    ,R3D752Q1,R3D752Q3,R3D752Q4,R3D752Q5,R3D752Q6,R3D753Q0,R3D753Q1
    ,R3D754Q2,R3D754Q3,R3D754Q6,R3D754Q7,R3D755Q0,R3D755Q1,R3D755Q2
    ,R3D755Q3,R3D756Q0,R3D756Q1,R3D756Q2,R3D756Q3,R3D756Q4,R3D757Q0
    ,R3D757Q1,R3D757Q2,R3D757Q3,R3D757Q4,R3D758Q0,R3D758Q1,R3D758Q2

```

,R3D758Q3,R3D758Q4,R3D758Q5,R3D758Q6,R3D759Q0,R3D759Q1,R3D759Q2
,R3D759Q3,R3D759Q4,R3D759Q5,R3D759Q6,R3D75AQ0,R3D75AQ1,R3D75AQ2
,R3D75AQ3,R3D75AQ4,R3D75AQ5,R3D75AQ6,R3D75AQ7,R3D75BQ0,R3D75BQ1
,R3D75BQ2,R3D75BQ3,R3D75BQ4,R3D75BQ5,R3D75BQ6,R3D75BQ7,R3D75EQ0
,R3D75EQ1,R3D75EQ2,R3D75EQ3,R3D75EQ4,R3D75EQ5,R3D75EQ6,R3D75EQ7
,R3D75FQ0,R3D75FQ1,R3D75FQ2,R3D75FQ3,R3D75FQ4,R3D75FQ5,R3D75FQ6
,R3D75FQ7,R3D760Q0,R3D760Q1,R3D760Q2,R3D760Q3,R3D760Q4,R3D760Q5
,R3D760Q6,R3D760Q7,R3D764Q0,R3D764Q1,R3D764Q2,R3D764Q3,R3D764Q4
,R3D764Q5,R3D764Q6,R3D764Q7,R3D765Q0,R3D765Q1,R3D765Q2,R3D765Q5
,R3D765Q6,R3D765Q7,R3D766Q0,R3D766Q1,R3D766Q2,R3D766Q3,R3D766Q4
,R3D766Q5,R3D766Q6,R3D766Q7,R3D767Q0,R3D767Q2,R3D767Q1,R3D767Q3
,R3D768Q1,R3D768Q0,R3D768Q2,R3D768Q3,R3D768Q4,R3D768Q5,R3D768Q6
,R3D768Q7,R3D769Q0,R3D769Q1,R3D769Q2,R3D769Q3,R3D769Q4,R3D769Q5
,R3D769Q6,R3D769Q7,R3D76AQ0,R3D76AQ1,R3D76AQ2,R3D76AQ3,R3D76AQ4
,R3D76AQ5,R3D76AQ6,R3D76AQ7,R3D755Q4,R3D750Q2,R3D751Q6,R3D76BQ0
,R3D76BQ1,R3D76BQ2,R3D76BQ3,R3D76BQ4,R3D76BQ5,R3D76BQ6,R3D76BQ7
,R3D751Q7,NT75,R3D754Q0

\$

DESCRIPTION : MODULE FOR BTREGC01 \$

LEVEL : FUNCTION \$

USE :

LDG8R ///
,B4IP /// MASTER
,IVP /// MASTER
,B2I /// MASTER
,B5I /// MASTER
,CTRL8 ///
,YLDG8 ///
,YLDG7 ///
,LD4 /// MASTER
,YLDG4 ///
,YLDG2 ///
,LDG3R ///
,LDG6R ///
,LDG4R ///
,LDG2R ///
,ND4 /// MASTER
,OR4 /// MASTER
,RED5L1 ///
,RED6L1 ///
,RED8L1 ///
,YLDG6 ///

\$

DEFINE :

R3D76E(,R3D76EQ0,R3D76EQ1,,R3D76EQ2,
,R3D76EQ3,,R3D76EQ4,,R3D76EQ5,R3D76EQ6,
,,R3D76EQ7) = LDG8R (NRESETB,WR3D76E,ND0,D1,NT40
,ND3A,ND4A,ND5A,D6,ND7) \$
R3D76D(,R3D76DQ0,,R3D76DQ1,R3D76DQ2,,R3D76DQ3
,,R3D76DQ4,,R3D76DQ5,,R3D76DQ6
,R3D76DQ7,) = LDG8R (NRESETB,WR3D76D,ND0,ND1,D2
,D3,D4,D5,ND6A,D7) \$
RB239(NRESETB) = B4IP (NRESETN) \$
RB238(NRESETN) = IVP (NRESET) \$
I14(ND0,D0) = B2I (DATAIN00) \$
I13(ND1,D1) = B2I (DATAIN01) \$
I12(NT40,D2) = B2I (DATAIN02) \$
I11(ND3A,D3) = B2I (DATAIN03) \$
I10(ND4A,D4) = B2I (DATAIN04) \$
I9(ND5A,D5) = B2I (DATAIN05) \$
I8(ND6A,D6) = B2I (DATAIN06) \$

I7(ND7,D7) = B2I (DATAIN07) \$
I6(B3D6Q2) = B5I (R3D6NQ2) \$
I5(B3D6NQ2) = B5I (R3D6Q2) \$
RB267(B3D6Q1) = B5I (R3D6NQ1) \$
RB266(B3D6NQ1) = B5I (R3D6Q1) \$
RB265(B3D6Q0) = B5I (R3D6NQ0) \$
RB264(B3D6NQ0) = B5I (R3D6Q0) \$
CT4(EN3D768,EN3D769,EN3D76A,EN3D76B,EN3D76C,EN3D76D,EN3D76E
,EN3D76F,WR3D768,WR3D769,WR3D76A,WR3D76B,WR3D76C,WR3D76D
,WR3D76E,WR3D76F) = CTRL8 (B3D6Q0,B3D6NQ0,B3D6Q1,B3D6NQ1
,B3D6Q2
,B3D6NQ2,N3D7WR2,B3D6NQ3,ONA2) \$
CT3(EN3D760,EN3D761,EN3D762,EN3D763,EN3D764,EN3D765,EN3D766
,EN3D767,WR3D760,WR3D761,WR3D762,WR3D763,WR3D764,WR3D765
,WR3D766,WR3D767) = CTRL8 (B3D6Q0,B3D6NQ0,B3D6Q1,B3D6NQ1
,B3D6Q2
,B3D6NQ2,N3D7WR2,B3D6Q3,ONA2) \$
CT2(EN3D758,EN3D759,EN3D75A,EN3D75B,EN3D75C,EN3D75D,EN3D75E
,EN3D75F,WR3D758,WR3D759,WR3D75A,WR3D75B,WR3D75C,WR3D75D
,WR3D75E,WR3D75F) = CTRL8 (B3D6Q0,B3D6NQ0,B3D6Q1,B3D6NQ1
,B3D6Q2
,B3D6NQ2,N3D7WR2,B3D6NQ3,ONA1) \$
CT1(EN3D750,EN3D751,EN3D752,EN3D753,EN3D754,EN3D755,EN3D756
,EN3D757,WR3D750,WR3D751,WR3D752,WR3D753,WR3D754,WR3D755
,WR3D756,WR3D757) = CTRL8 (B3D6Q0,B3D6NQ0,B3D6Q1,B3D6NQ1
,B3D6Q2
,B3D6NQ2,N3D7WR2,B3D6Q3,ONA1) \$
R3D764(,R3D764Q7,,R3D764Q6,,R3D764Q5,
,R3D764Q4,,R3D764Q3,,R3D764Q2,,R3D764Q1
,,R3D764Q0) = YLDG8 (D7,D6,D5,D4,D3
,D2,D1,D0,WR3D764) \$
R3D760(,R3D760Q0,,R3D760Q1,R3D760Q2,,R3D760Q3
,,R3D760Q4,,R3D760Q5,,R3D760Q6,
,,R3D760Q7) = LDG8R (NRESETB,WR3D760,ND0,ND1,D2
,D3,D4,D5,D6,ND7) \$
R3D75F(,R3D75FQ7,,R3D75FQ6,,R3D75FQ5,
,R3D75FQ4,,R3D75FQ3,,R3D75FQ2,,R3D75FQ1
,,R3D75FQ0) = YLDG8 (D7,D6,D5,D4,D3
,D2,D1,D0,WR3D75F) \$
RB346(,R3D75EQ6,,R3D75EQ5,,R3D75EQ4,
,R3D75EQ3,,R3D75EQ2,,R3D75EQ1,,R3D75EQ0
) = YLDG7 (D6,D5,D4,D3,D2,D1,D0
,WR3D75E) \$
RB345(,R3D75EQ7) = LD4 (ND7,WR3D75E,NRESETB) \$
R3D75B(,R3D75BQ7,,R3D75BQ6,,R3D75BQ5,
,R3D75BQ4,,R3D75BQ3,,R3D75BQ2,,R3D75BQ1
,,R3D75BQ0) = YLDG8 (D7,D6,D5,D4,D3
,D2,D1,D0,WR3D75B) \$
R3D75A(,R3D75AQ7,,R3D75AQ6,,R3D75AQ5,
,R3D75AQ4,,R3D75AQ3,,R3D75AQ2,,R3D75AQ1
,,R3D75AQ0) = YLDG8 (D7,D6,D5,D4,D3
,D2,D1,D0,WR3D75A) \$
RB362(,R3D759Q3,,R3D759Q2,,R3D759Q1,
,R3D759Q0) = YLDG4 (D3,D2,D1,D0,WR3D759) \$
RB363(R3D759Q4,) = LD4 (D4,WR3D759,NRESETB) \$
RB361(,R3D759Q6,,R3D759Q5) = YLDG2 (D6,D5,WR3D759
) \$
RB359(,R3D758Q3,,R3D758Q2,,R3D758Q1,
,R3D758Q0) = YLDG4 (D3,D2,D1,D0,WR3D758) \$
RB360(R3D758Q4,) = LD4 (D4,WR3D758,NRESETB) \$
RB358(,R3D758Q6,,R3D758Q5) = YLDG2 (D6,D5,WR3D758
) \$

RB357(,R3D757Q3,,R3D757Q2,,R3D757Q1,
 ,R3D757Q0) = YLDG4 (D3,D2,D1,D0,WR3D757) \$
 RB356(,R3D757Q4) = LD4 (ND4A,WR3D757,NRESETB) \$
 RB355(,R3D756Q3,,R3D756Q2,,R3D756Q1,
 ,R3D756Q0) = YLDG4 (D3,D2,D1,D0,WR3D756) \$
 RB354(,R3D756Q4) = LD4 (ND4A,WR3D756,NRESETB) \$
 RB353(,R3D755Q3,,R3D755Q2,,R3D755Q1,
 ,R3D755Q0) = YLDG4 (D3,D2,D1,D0,WR3D755) \$
 RB352(,R3D755Q4) = LD4 (ND4A,WR3D755,NRESETB) \$
 RB351(R3D754Q0,,R3D754Q2,,R3D754Q3) = LDG3R (NRESETB
 ,WR3D754,D0,D2,ND3A) \$
 RB350(,R3D754Q7,,R3D754Q6) = YLDG2 (D7,D6,WR3D754
) \$
 R3D753(,R3D753Q1,,R3D753Q0) = YLDG2 (D1,D0,WR3D753
) \$
 R3D752(R3D752Q0,,R3D752Q1,,R3D752Q3,,R3D752Q4
 ,,R3D752Q5,,R3D752Q6,) = LDG6R (NRESETB,WR3D752
 ,D0,D1,D3,D4,D5,D6) \$
 RB348(R3D751Q0,,R3D751Q1,,NT76,,R3D751Q3
 ,) = LDG4R (NRESETB,WR3D751,D0,D1,NT40,D3
) \$
 RB349(,R3D751Q5,,R3D751Q4) = YLDG2 (D5,D4,WR3D751
) \$
 RB347(R3D751Q6,,R3D751Q7,) = LDG2R (NRESETB,WR3D751,D6
 ,D7) \$
 R3D750(NT75,R3D750Q7,,R3D750Q6,,R3D750Q5,
 ,R3D750Q4,,R3D750Q3,,R3D750Q2,,R3D750Q1
 ,,R3D750Q0) = YLDG8 (D7,D6,D5,D4,D3
 ,D2,D1,D0,WR3D750) \$
 NA1(ONA1) = ND4 (B3D6NQ7,B3D6Q6,B3D6NQ5,B3D6Q4) \$
 O8(DOUT7) = OR4 (RD17,RD27,RD37,RD47) \$
 O7(DOUT6) = OR4 (RD16,RD26,RD36,RD46) \$
 O6(DOUT5) = OR4 (RD15,RD25,RD35,RD45) \$
 O5(DOUT4) = OR4 (RD14,RD24,RD34,RD44) \$
 O4(DOUT3) = OR4 (RD13,RD23,RD33,RD43) \$
 O3(DOUT2) = OR4 (RD12,RD22,RD32,RD42) \$
 O2(DOUT1) = OR4 (RD11,RD21,RD31,RD41) \$
 O1(DOUT0) = OR4 (RD10,RD20,RD30,RD40) \$
 RB340(RD30,RD31,RD32,RD33,RD34,RD35,RD36
 ,RD37) = RED5L1 (EN3D760,EN3D764,EN3D765,R3D760Q0
 ,R3D764Q0,R3D765Q0
 ,R3D760Q1,R3D764Q1,R3D765Q1,R3D760Q2,R3D764Q2,R3D765Q2,R3D760Q3
 ,R3D764Q3,SSS,R3D760Q4,R3D764Q4,SSS,R3D760Q5,R3D764Q5
 ,R3D765Q5,R3D760Q6,R3D764Q6,R3D765Q6,R3D760Q7,R3D764Q7,R3D765Q7
 ,EN3D766,EN3D767,R3D766Q7,SSS,R3D766Q6,SSS,R3D766Q5
 ,SSS,R3D766Q4,SSS,R3D766Q3,R3D767Q3,R3D766Q2,R3D767Q2
 ,R3D766Q1,R3D767Q1,R3D766Q0,R3D767Q0) \$
 RB339(RD20,RD21,RD22,RD23,RD24,RD25,RD26
 ,RD27) = RED6L1 (R3D758Q0,R3D758Q1,R3D758Q2,R3D758Q3
 ,R3D758Q4,R3D758Q5
 ,R3D758Q6,SSS,R3D759Q0,R3D759Q1,R3D759Q2,R3D759Q3,R3D759Q4
 ,R3D759Q5,R3D759Q6,SSS,R3D75AQ0,R3D75AQ1,R3D75AQ2,R3D75AQ3
 ,R3D75AQ4,R3D75AQ5,R3D75AQ6,R3D75AQ7,R3D75BQ0,R3D75BQ1,R3D75BQ2
 ,R3D75BQ3,R3D75BQ4,R3D75BQ5,R3D75BQ6,R3D75BQ7,R3D75EQ0,R3D75EQ1
 ,R3D75EQ2,R3D75EQ3,R3D75EQ4,R3D75EQ5,R3D75EQ6,R3D75EQ7,R3D75FQ0
 ,R3D75FQ1,R3D75FQ2,R3D75FQ3,R3D75FQ4,R3D75FQ5,R3D75FQ6,R3D75FQ7
 ,EN3D758,EN3D759,EN3D75A,EN3D75B,EN3D75E,EN3D75F) \$
 RB338(RD10,RD11,RD12,RD13,RD14,RD15,RD16
 ,RD17) = RED8L1 (R3D750Q0,R3D750Q1,R3D750Q2,R3D750Q3
 ,R3D750Q4,R3D750Q5
 ,R3D750Q6,R3D750Q7,R3D751Q0,R3D751Q1,R3D751Q2,R3D751Q3,R3D751Q4
 ,R3D751Q5,R3D751Q6,R3D751Q7,R3D752Q0,R3D752Q1,SSS,R3D752Q3

```

, R3D752Q4, R3D752Q5, R3D752Q6, SSS, R3D753Q0, R3D753Q1, SSS
, SSS, SSS, SSS, SSS, SSS, R3D754Q0, SSS
, R3D754Q2, R3D754Q3, SSS, SSS, R3D754Q6, R3D754Q7, R3D755Q0
, R3D755Q1, R3D755Q2, R3D755Q3, R3D755Q4, SSS, SSS, SSS
, R3D756Q0, R3D756Q1, R3D756Q2, R3D756Q3, R3D756Q4, SSS, SSS
, SSS, R3D757Q0, R3D757Q1, R3D757Q2, R3D757Q3, R3D757Q4, SSS
, SSS, SSS, EN3D750, EN3D751, EN3D752, EN3D753, EN3D754
, EN3D755, EN3D756, EN3D757 ) $
NA2( ONA2 ) = ND4 ( B3D6NQ7, B3D6Q6, B3D6Q5, B3D6NQ4 ) $
R3D765( , R3D765Q7, , R3D765Q6, , R3D765Q5,
, R3D765Q2, , R3D765Q1, , R3D765Q0 ) = YLDG6 ( D7, D6
, D5, D2, D1, D0, WR3D765 ) $
R3D766( , R3D766Q7, , R3D766Q6, , R3D766Q5,
, R3D766Q4, , R3D766Q3, , R3D766Q2, , R3D766Q1
, , R3D766Q0 ) = YLDG8 ( D7, D6, D5, D4, D3
, D2, D1, D0, WR3D766 ) $
R3D767( , R3D767Q3, , R3D767Q2, , R3D767Q1,
, R3D767Q0 ) = YLDG4 ( D3, D2, D1, D0, WR3D767 ) $
RB341( RD40, RD41, RD42, RD43, RD44, RD45, RD46
, RD47 ) = RED6L1 ( R3D768Q0, R3D768Q1, R3D768Q2, R3D768Q3
, R3D768Q4, R3D768Q5
, R3D768Q6, R3D768Q7, R3D769Q0, R3D769Q1, R3D769Q2, R3D769Q3, R3D769Q4
, R3D769Q5, R3D769Q6, R3D769Q7, R3D76AQ0, R3D76AQ1, R3D76AQ2, R3D76AQ3
, R3D76AQ4, R3D76AQ5, R3D76AQ6, R3D76AQ7, R3D76BQ0, R3D76BQ1, R3D76BQ2
, R3D76BQ3, R3D76BQ4, R3D76BQ5, R3D76BQ6, R3D76BQ7, R3D76DQ0, R3D76DQ1
, R3D76DQ2, R3D76DQ3, R3D76DQ4, R3D76DQ5, R3D76DQ6, R3D76DQ7, R3D76EQ0
, R3D76EQ1, R3D76EQ2, R3D76EQ3, R3D76EQ4, R3D76EQ5, R3D76EQ6, R3D76EQ7
, EN3D768, EN3D769, EN3D76A, EN3D76B, EN3D76D, EN3D76E ) $
R3D76A( , R3D76AQ7, , R3D76AQ6, , R3D76AQ5,
, R3D76AQ4, , R3D76AQ3, , R3D76AQ2, , R3D76AQ1
, , R3D76AQ0 ) = YLDG8 ( D7, D6, D5, D4, D3
, D2, D1, D0, WR3D76A ) $
R3D769( , R3D769Q7, , R3D769Q6, , R3D769Q5,
, R3D769Q4, , R3D769Q3, , R3D769Q2, , R3D769Q1
, , R3D769Q0 ) = YLDG8 ( D7, D6, D5, D4, D3
, D2, D1, D0, WR3D769 ) $
R3D768( , R3D768Q7, , R3D768Q6, , R3D768Q5,
, R3D768Q4, , R3D768Q3, , R3D768Q2, , R3D768Q1
, , R3D768Q0 ) = YLDG8 ( D7, D6, D5, D4, D3
, D2, D1, D0, WR3D768 ) $
R3D76B( , R3D76BQ7, , R3D76BQ6, , R3D76BQ5,
, R3D76BQ4, , R3D76BQ3, , R3D76BQ2, , R3D76BQ1
, , R3D76BQ0 ) = YLDG8 ( D7, D6, D5, D4, D3
, D2, D1, D0, WR3D76B ) $
RB177( R3D751Q2 ) = IVP ( NT76 ) $
END : MODULE $
MODULE : BLINKING/// $
INPUTS :
NRESET, HSYNC, NHRES, NVRES, VSYNC, CLKCONT0, CLKCONT1, CLKCONT2, CLKCONT3
, CLKCONT4, CLKCONT5, CLKCONT6, CLKCONT7, BLNKRAT0, BLNKRAT1, BLNKRAT2
, BLNKRAT3, BLNKRAT4, BLNKRAT5, BLNKRAT6, BLNKRAT7, CCC
$
OUTPUTS :
ACDCLK, ATRBLINK, CSRBLINK
$
DESCRIPTION : MODULE FOR BLINKING $
LEVEL : FUNCTION $
USE :
IV /// MASTER
, NR2 /// MASTER
, TCNT5 ///
, MUX21L /// MASTER

```

```
,MUX41 /// MASTER
,TCNT8 ///
,NEQL8 ///
,FD4 /// MASTER
,FT2 /// MASTER
,TCNT6 ///
,NEQL6 ///
,TCNT2 ///
,AN2 /// MASTER
```

\$

DEFINE :

```
RB676( CLKC7N ) = IV ( CLKCONT7 ) $
RB675( CSEL1 ) = NR2 ( CLKC7N,CLKCONT1 ) $
RB674( CSEL0 ) = NR2 ( CLKC7N,CLKCONT0 ) $
RB673( U6Q,,ACD3FRC,ACD3FRCN,,
,,N16FRAME, ) = TCNT5 ( VSYNC,NRESET ) $
RB672( ALTACD ) = MUX21L ( ACD3FRC,ACD3FRCN,N16FRAME ) $
RB671( ACDCLK ) = MUX41 ( U3Q,ALTACD,ACD3FRC,U6Q,CSEL0,CSEL1
) $
U0( U0Q0,,U0Q1,,U0Q2,,U0Q3
,,U0Q4,,U0Q5,,U0Q6,
,U0Q7, ) = TCNT8 ( U14Z,HSYNC ) $
U1( U1NEQ ) = NEQL8 ( CCC,U0Q0,U0Q1,U0Q2,U0Q3,U0Q4
,U0Q5,U0Q6,CCC,CLKCONT0,CLKCONT1,CLKCONT2,CLKCONT3
,CLKCONT4,CLKCONT5,CLKCONT6 ) $
U2( U2Q, ) = FD4 ( U1NEQ,HSYNC,NRESET ) $
U3( U3Q, ) = FT2 ( U2Q,NHRES ) $
U5( U5Q0,,U5Q1,,U5Q2,,U5Q3
,,U5Q4,,U5Q5, ) = TCNT6 ( U15Z,U6Q
) $
U7( U7NEQ ) = NEQL6 ( U5Q0,U5Q1,U5Q2,U5Q3,U5Q4,U5Q5
,BLNKRAT0,BLNKRAT1,BLNKRAT2,BLNKRAT3,BLNKRAT4,BLNKRAT5 ) $
U8( U8Q, ) = FD4 ( U7NEQ,VSYNC,NVRES ) $
U9( CSRBLINK,,U9T1, ) = TCNT2 ( U8Q,NVRES ) $
U10( U10Z ) = AN2 ( CSRBLINK,U9T1 ) $
U11( U11Z ) = IV ( U10Z ) $
U12( U12Z ) = IV ( CSRBLINK ) $
U13( ATRBLINK ) = MUX41 ( U12Z,U11Z,U9T1,U10Z,BLNKRAT6,BLNKRAT7
) $
U14( U14Z ) = AN2 ( U2Q,NHRES ) $
U15( U15Z ) = AN2 ( U8Q,NVRES ) $
```

END : MODULE \$

MODULE : ALTMUX/// \$

INPUTS :

```
R3C2Q2,R3C2Q3,R3C2Q6,R3C2Q7,R3D754Q2,R3D754Q3,R3D754Q6,R3D754Q7
,VERT0,VERT1,VERT2,VERT3,VERT4,VERT5,VERT6,VERT7,R3D764Q0,R3D764Q1
,R3D764Q2,R3D764Q3,R3D764Q4,R3D764Q5,R3D764Q6,R3D764Q7,VERRS0
,VERRS1,VERRS2,VERRS3,VERRS4,VERRS5,VERRS6,VERRS7,R3D766Q0,R3D766Q1
,R3D766Q2,R3D766Q3,R3D766Q4,R3D766Q5,R3D766Q6,R3D766Q7,VERRE0
,VERRE1,VERRE2,VERRE3,R3D767Q0,R3D767Q1,R3D767Q2,R3D767Q3,VERDE0
,VERDE1,VERDE2,VERDE3,VERDE4,VERDE5,VERDE6,VERDE7,R3D768Q0,R3D768Q1
,R3D768Q2,R3D768Q3,R3D768Q4,R3D768Q5,R3D768Q6,R3D768Q7,CRT07Q0
,CRT07Q1,CRT07Q2,CRT07Q5,CRT07Q6,CRT07Q7,R3D765Q0,R3D765Q1,R3D765Q2
,R3D765Q5,R3D765Q6,R3D765Q7,CRT
```

\$

OUTPUTS :

```
R3C2QA2,R3C2QA3,R3C2QA6,R3C2QA7,VERTA0,VERTA1,VERTA2,VERTA3,VERTA4
,VERTA5,VERTA6,VERTA7,VERRSA0,VERRSA1,VERRSA2,VERRSA3,VERRSA4
,VERRSA5,VERRSA6,VERRSA7,VERREA0,VERREA1,VERREA2,VERREA3,VERDEA0
,VERDEA1,VERDEA2,VERDEA3,VERDEA4,VERDEA5,VERDEA6,VERDEA7,CRT07QA0
,CRT07QA1,CRT07QA2,CRT07QA5,CRT07QA6,CRT07QA7
```

```
$
DESCRIPTION : MODULE FOR ALTMUX $
LEVEL : FUNCTION $
USE :
    SEL48 ///
    ,SEL816 ///
    ,SEL612 ///
    ,IVAP /// MASTER
```

```
$
DEFINE :
    MSRMUX( R3C2QA2,R3C2QA3,R3C2QA6,R3C2QA7 ) = SEL48 ( R3C2Q2
    ,R3C2Q3,R3C2Q6
    ,R3C2Q7,R3D754Q2,R3D754Q3,R3D754Q6,R3D754Q7,NCRT ) $
    RB156( VERTA0,VERTA1,VERTA2,VERTA3,VERTA4,VERTA5,VERTA6
    ,VERTA7 ) = SEL816 ( VERT0,VERT1,VERT2,VERT3,VERT4,VERT5
    ,VERT6,VERT7,R3D764Q0,R3D764Q1,R3D764Q2,R3D764Q3,R3D764Q4
    ,R3D764Q5,R3D764Q6,R3D764Q7,NCRT ) $
    RB158( VERRSA0,VERRSA1,VERRSA2,VERRSA3,VERRSA4,VERRSA5,VERRSA6
    ,VERRSA7 ) = SEL816 ( VERRS0,VERRS1,VERRS2,VERRS3,VERRS4,VERRS5
    ,VERRS6,VERRS7,R3D766Q0,R3D766Q1,R3D766Q2,R3D766Q3,R3D766Q4
    ,R3D766Q5,R3D766Q6,R3D766Q7,NCRT ) $
    RB159( VERREA0,VERREA1,VERREA2,VERREA3 ) = SEL48 ( VERRE0
    ,VERRE1,VERRE2
    ,VERRE3,R3D767Q0,R3D767Q1,R3D767Q2,R3D767Q3,NCRT ) $
    RB160( VERDEA0,VERDEA1,VERDEA2,VERDEA3,VERDEA4,VERDEA5,VERDEA6
    ,VERDEA7 ) = SEL816 ( VERDE0,VERDE1,VERDE2,VERDE3,VERDE4,VERDE5
    ,VERDE6,VERDE7,R3D768Q0,R3D768Q1,R3D768Q2,R3D768Q3,R3D768Q4
    ,R3D768Q5,R3D768Q6,R3D768Q7,NCRT ) $
    RB157( CRT07QA0,CRT07QA1,CRT07QA2,CRT07QA5,CRT07QA6,CRT07QA7
    ) = SEL612 ( CRT07Q0
    ,CRT07Q1,CRT07Q2,CRT07Q5,CRT07Q6,CRT07Q7,R3D765Q0,R3D765Q1
    ,R3D765Q2,R3D765Q5,R3D765Q6,R3D765Q7,NCRT ) $
    RB398( NCRT ) = IVAP ( CRT ) $
```

```
END : MODULE $
MODULE : YFFD7/// $
INPUTS :
    CL,NMR,D0,D1,D2,D3,D4,D5,D6
```

```
$
OUTPUTS :
    Q0,NQ0,Q1,NQ1,Q2,NQ2,Q3,NQ3,Q4,NQ4,Q5,NQ5,Q6,NQ6
```

```
$
DESCRIPTION : MODULE FOR YFFD7 $
LEVEL : FUNCTION $
USE :
    YFD2 /// MASTER
```

```
$
DEFINE :
    BIT0( Q0,NQ0 ) = YFD2 ( D0,CL,NMR ) $
    BIT1( Q1,NQ1 ) = YFD2 ( D1,CL,NMR ) $
    BIT2( Q2,NQ2 ) = YFD2 ( D2,CL,NMR ) $
    BIT3( Q3,NQ3 ) = YFD2 ( D3,CL,NMR ) $
    BIT4( Q4,NQ4 ) = YFD2 ( D4,CL,NMR ) $
    BIT5( Q5,NQ5 ) = YFD2 ( D5,CL,NMR ) $
    BIT6( Q6,NQ6 ) = YFD2 ( D6,CL,NMR ) $
```

```
END : MODULE $
MODULE : YFFD3/// $
INPUTS :
    CL,NMR,D0,D1,D2
```

```
$
OUTPUTS :
```

Q0,NQ0,Q1,NQ1,Q2,NQ2

\$
DESCRIPTION : MODULE FOR YFFD3 \$
LEVEL : FUNCTION \$
USE :
YFD2 /// MASTER

\$
DEFINE :
BIT0(Q0,NQ0) = YFD2 (D0,CL,NMR) \$
BIT1(Q1,NQ1) = YFD2 (D1,CL,NMR) \$
BIT2(Q2,NQ2) = YFD2 (D2,CL,NMR) \$

END : MODULE \$

MODULE : VIDE01/// \$

INPUTS :
BLANKP,NT105,CC89SELN,VPDISP0,CSRBLINK,ATRBLINK,ATT30Q2A,BLANK1
,R3D728Q2,R3D72BQ0,R3D72BQ1,R3D72BQ2,R3D72BQ3,R3D72BQ4,R3D72BQ5
,R3D72BQ6,R3D72BQ7,CGASL1,CGASL1N,CGASL2N,DATAIN0,DATAIN1,DATAIN2
,DATAIN3,M13CLK,WTRATT31,WTRATT34,DATAIN7,DATAIN6,DCLK,PRAMCL
,DATAIN4,DATAIN5,SSS,C3F7Q,C3G8Q,ATTA5N,D3A401,ATTA5,ATTA1,ATTA0
,ATTA3,ATTA2,CRTLTH,PLNSHIFT,CRTP2D1,CRTP2D5,CRTP2D3,CRTP2D6,CRTP2D7
,CRTP2D4,CRTP3D5,CRTP3D6,CRTP3D4,CRTP3D7,CRTP1D6,CRTP1D4,CRTP0D5
,CRTP1D2,CRTP0D7,CRTP1D0,CRTP1D7,CRTP1D5,CRTP1D1,CRTP2D0,CRTP2D2
,CRTP3D0,CRTP3D2,CRTP3D3,CRTP1D3,CRTP0D4,CRTP0D6,CRTP0D0,CRTP0D2
,CRTP0D3,CRTP3D1,CRTP0D1,TXTSHIFT,CCC,ATT02Q2,GCSHLD,GC256L,C3E6Q
,D3F1101,D3C13Q,E3D1701,WTRATT30,WTRATT33,WTRATT12,R3D9Q4,R3D9Q5
,R3B8Q2,R3D9Q3,R3D9Q2,R3D9Q1,R3D9Q0,TEXT,CHAN,EMBLK,NHERGR,STP348
,DSPTD2

\$
OUTPUTS :
DSPEN,NT108,CRTVD70,CRTVD60,CRTVD50,CRTVD40,CRTVD30,CRTVD20,CRTVD10
,CRTVD00,NATTVMX0,NDSPEN,PLOUT5,PLOUT4,PLOUT3,PLOUT2,PLOUT1,PLOUT0
,DPGRP1,DPGRP0,ATT34Q3,ATT34Q2,ATT34Q1,ATT34Q0,ATT31Q7,ATT31Q6
,ATT31Q5,ATT31Q4,ATT31Q3,ATT31Q2,ATT31Q1,ATT31Q0,PRAMSAB,PRAMSBC
,TXTSHO,PELP30,PELP10,PELP02,PELP00,E5B1Q,E5D2Q,D3B1QC,SCOLSEL
,ATT30Q5,ATT30Q4,ATT30Q3,ATT30Q2,ATT30Q1,ATT30Q0,ATT30Q4N,ATTVMX1
,ATTVMX0,ATTCPE3,ATTCPE2,ATTCPE1,ATTCPE0,ATT33Q3,ATT33Q2,ATT33Q1
,ATT33Q0,C1F1201,C1G1201,PELP1D,PL1SHO,PELPI2,PL2SHO,PELP3D,PL3SHO
,PELP0D,PL0SHO,ATT30Q0N,D3B10Q,D3B11Q

\$
DESCRIPTION : MODULE FOR VIDE01 \$
LEVEL : FUNCTION \$
USE :

DFE8 ///
,FD1P /// MASTER
,IV /// MASTER
,IVP /// MASTER
,B3IP /// MASTER
,B2I /// MASTER
,OR2 /// MASTER
,TCNT5 ///
,NR2 /// MASTER
,A04 /// MASTER
,ND8 /// MASTER
,MUX21L /// MASTER
,ND2 /// MASTER
,YFD3SI ///
,YFD2MD ///
,YFD2SI ///
,LDG4 ///
,LDG6 ///
,LDG7 ///


```

,B5I /// MASTER
,B4I /// MASTER
,YFD1 /// MASTER
,A07P /// MASTER
,AN2 /// MASTER
,AN4 /// MASTER
,ND4P /// MASTER
,YFD2 /// MASTER
,A07 /// MASTER
,ND3P /// MASTER
,ND2P /// MASTER
,MUX21LP /// MASTER
,FD1 /// MASTER
,ND3 /// MASTER
,PSHFDD ///
,FD1S /// MASTER
,MUX42 ///
,PELP1 ///
,MUX41 /// MASTER
,LDG8 ///
,RAM610A ///
,MUX241 ///

```

\$

DEFINE :

```

RB662( CRTVD00,CRTVD10,CRTVD20,CRTVD30,CRTVD40,CRTVD50,CRTVD60
,CRTVD70 ) = DFF8 ( PI0,PI1,PI2,PI3,PI4,PI5
,PI6,PI7,M13CLK ) $
RB554( NDSPENP,DSPENM ) = FD1P ( NDSPENPI,DCLK ) $
RB553( ATT02Q2N ) = IV ( ATT02Q2 ) $
RB552( D2B15NQ ) = IVP ( D2B15Q ) $
RB323( PRAMSCD,PRAMSAB ) = B3IP ( PRAMSABI ) $
RB322( PRAMSAD,PRAMSBC ) = B3IP ( PRAMSBCI ) $
RB321( E5B1NQ,E5B1Q ) = B3IP ( E5B1QI ) $
RB320( E5D2NQ,E5D2Q ) = B3IP ( E5D2QI ) $
RB386( ,ATT33Q1N ) = B2I ( AT33Q1NI ) $
RB381( DSPTD2N ) = IV ( DSPTD2 ) $
RB447( NT108 ) = OR2 ( NT105,VPDISP0 ) $
D3E12( ,,,,,,D3B11Q
,,D3B10Q, ) = TCNT5 ( D3A401,NATTVMX0 ) $
E1F92( E1F9012 ) = NR2 ( C1G801,CRTP3D4 ) $
E1F91( E1F9011 ) = A04 ( CRTP0D1,E1C201,E1D201,CRTP1D2 ) $
E1F9( PL0SHD6 ) = NR2 ( E1F9011,E1F9012 ) $
E1E92( E1E9012 ) = NR2 ( C1G801,CRTP3D0 ) $
E1E91( E1E9011 ) = A04 ( CRTP0D0,E1C201,E1D201,CRTP1D0 ) $
E1E9( PL0SHD7 ) = NR2 ( E1E9011,E1E9012 ) $
E1E72( E1E7012 ) = NR2 ( C1G801,CRTP1D0 ) $
E1E71( E1E7011 ) = A04 ( CRTP0D4,E1C201,E1D201,CRTP0D0 ) $
E1E7( PL0SHD3 ) = NR2 ( E1E7011,E1E7012 ) $
E1E52( E1E5012 ) = NR2 ( C1G801,CRTP0D0 ) $
E1E51( E1E5011 ) = A04 ( E1C201,CRTP0D6,E1D201,CRTP0D4 ) $
E1E5( PL0SHD1 ) = NR2 ( E1E5011,E1E5012 ) $
E1D92( E1D9012 ) = NR2 ( C1G801,CRTP2D4 ) $
E1D91( E1D9011 ) = A04 ( E1C201,CRTP0D3,E1D201,CRTP1D6 ) $
E1D9( PL0SHD4 ) = NR2 ( E1D9011,E1D9012 ) $
E1D72( E1D7012 ) = NR2 ( C1G801,CRTP1D4 ) $
E1D71( E1D7011 ) = A04 ( E1C201,CRTP0D5,E1D201,CRTP0D2 ) $
E1D7( PL0SHD2 ) = NR2 ( E1D7011,E1D7012 ) $
E1D62( E1D6012 ) = NR2 ( C1G801,CRTP0D4 ) $
E1D61( E1D6011 ) = A04 ( E1C201,CRTP0D7,E1D201,CRTP0D6 ) $
E1D6( PL0SHD0 ) = NR2 ( E1D6011,E1D6012 ) $
E1C102( E1C10012 ) = NR2 ( C1G801,CRTP0D1 ) $

```

E1C101(E1C10011) = A04 (CRTP1D6,E1C201,E1D201,CRTP0D5) \$
E1C10(PL1SHD1) = NR2 (E1C10011,E1C10012) \$
E1C92(E1C9012) = NR2 (C1G801,CRTP1D1) \$
E1C91(E1C9011) = A04 (CRTP1D4,E1C201,E1D201,CRTP0D1) \$
E1C9(PL1SHD3) = NR2 (E1C9011,E1C9012) \$
E1C82(E1C8012) = NR2 (C1G801,CRTP2D0) \$
E1C81(E1C8011) = A04 (CRTP0D2,E1C201,E1D201,CRTP1D4) \$
E1C8(PL0SHD5) = NR2 (E1C8011,E1C8012) \$
E1B142(E1B14012) = NR2 (C1G801,CRTP0D5) \$
E1B141(E1B14011) = A04 (CRTP1D7,E1C201,E1D201,CRTP0D7) \$
E1B14(PL1SHD0) = NR2 (E1B14011,E1B14012) \$
E1B92(E1B9012) = NR2 (C1G801,CRTP1D5) \$
E1B91(E1B9011) = A04 (CRTP1D5,E1C201,E1D201,CRTP0D3) \$
E1B9(PL1SHD2) = NR2 (E1B9011,E1B9012) \$
E1A122(E1A12012) = NR2 (C1G801,CRTP2D5) \$
E1A121(E1A12011) = A04 (CRTP1D3,E1C201,E1D201,CRTP1D7) \$
E1A12(PL1SHD4) = NR2 (E1A12011,E1A12012) \$
E1A62(E1A6012) = NR2 (C1G801,CRTP3D5) \$
E1A61(E1A6011) = A04 (CRTP1D1,E1C201,E1D201,CRTP1D3) \$
E1A6(PL1SHD6) = NR2 (E1A6011,E1A6012) \$
D3A22(D3A2012) = NR2 (ATT30Q0N,PL0SH0) \$
D3A21(D3A2011) = A04 (D3A1Q,C2F1101,C2G1401,D2A14Q) \$
D3A2(PELP0D) = NR2 (D3A2011,D3A2012) \$
D2A152(D2A15012) = NR2 (ATT30Q0N,PL3SH0) \$
D2A151(D2A15011) = A04 (D2A16Q,C2F1101,C2G1401,D2A13Q) \$
D2A15(PELP3D) = NR2 (D2A15011,D2A15012) \$
D1G82(D1G8012) = NR2 (C1G801,CRTP2D1) \$
D1G81(D1G8011) = A04 (CRTP1D2,E1C201,E1D201,CRTP1D5) \$
D1G8(PL1SHD5) = NR2 (D1G8011,D1G8012) \$
D1G62(D1G6012) = NR2 (C1G801,CRTP3D1) \$
D1G61(D1G6011) = A04 (E1C201,CRTP1D0,E1D201,CRTP1D1) \$
D1G6(PL1SHD7) = NR2 (D1G6011,D1G6012) \$
D1E122(D1E12012) = NR2 (C1G801,CRTP1D6) \$
D1E121(D1E12011) = A04 (E1C201,CRTP2D5,E1D201,CRTP2D2) \$
D1E12(PL2SHD2) = NR2 (D1E12011,D1E12012) \$
D1E102(D1E10012) = NR2 (C1G801,CRTP1D2) \$
D1E101(D1E10011) = A04 (CRTP2D4,E1C201,E1D201,CRTP2D0) \$
D1E10(PL2SHD3) = NR2 (D1E10011,D1E10012) \$
D1E82(D1E8012) = NR2 (C1G801,CRTP0D2) \$
D1E81(D1E8011) = A04 (E1C201,CRTP2D6,E1D201,CRTP2D4) \$
D1E8(PL2SHD1) = NR2 (D1E8011,D1E8012) \$
D1D72(D1D7012) = NR2 (C1G801,CRTP2D2) \$
D1D71(D1D7011) = A04 (CRTP2D2,E1C201,E1D201,CRTP3D4) \$
D1D7(PL2SHD5) = NR2 (D1D7011,D1D7012) \$
D1D52(D1D5012) = NR2 (C1G801,CRTP0D6) \$
D1D51(D1D5011) = A04 (CRTP2D7,E1C201,E1D201,CRTP2D6) \$
D1D5(PL2SHD0) = NR2 (D1D5011,D1D5012) \$
D1C72(D1C7012) = NR2 (C1G801,CRTP3D2) \$
D1C71(D1C7011) = A04 (CRTP2D0,E1C201,E1D201,CRTP3D0) \$
D1C7(PL2SHD7) = NR2 (D1C7011,D1C7012) \$
D1C62(D1C6012) = NR2 (C1G801,CRTP3D6) \$
D1C61(D1C6011) = A04 (CRTP2D1,E1C201,E1D201,CRTP3D2) \$
D1C6(PL2SHD6) = NR2 (D1C6011,D1C6012) \$
D1C42(D1C4012) = NR2 (C1G801,CRTP2D6) \$
D1C41(D1C4011) = A04 (E1C201,CRTP2D3,E1D201,CRTP3D6) \$
D1C4(PL2SHD4) = NR2 (D1C4011,D1C4012) \$
D1B132(D1B13012) = NR2 (C1G801,CRTP1D7) \$
D1B131(D1B13011) = A04 (CRTP3D5,E1C201,E1D201,CRTP2D3) \$
D1B13(PL3SHD2) = NR2 (D1B13011,D1B13012) \$
D1B102(D1B10012) = NR2 (C1G801,CRTP0D3) \$
D1B101(D1B10011) = A04 (CRTP3D6,E1C201,E1D201,CRTP2D5) \$
D1B10(PL3SHD1) = NR2 (D1B10011,D1B10012) \$

D1B92(D1B9012) = NR2 (C1G801,CRTP1D3) \$
D1B91(D1B9011) = A04 (CRTP3D4,E1C201,E1D201,CRTP2D1) \$
D1B9(PL3SHD3) = NR2 (D1B9011,D1B9012) \$
D1A112(D1A11012) = NR2 (C1G801,CRTP0D7) \$
D1A111(D1A11011) = A04 (E1C201,CRTP3D7,E1D201,CRTP2D7) \$
D1A11(PL3SHD0) = NR2 (D1A11011,D1A11012) \$
D1A82(D1A8012) = NR2 (C1G801,CRTP2D3) \$
D1A81(D1A8011) = A04 (CRTP3D2,E1C201,E1D201,CRTP3D5) \$
D1A8(PL3SHD5) = NR2 (D1A8011,D1A8012) \$
C3G22(C3G2012) = NR2 (ATT30Q0N,PL2SHO) \$
C3G21(C3G2011) = A04 (C3D2Q,C2F1101,C2G1401,C3F1Q) \$
C3G2(PELPI2) = NR2 (C3G2011,C3G2012) \$
C2F122(C2F12012) = NR2 (ATT30Q0N,PL1SHO) \$
C2F121(C2F12011) = A04 (C2F1101,C2E18Q,C2G1401,C2G17Q) \$
C2F12(PELP1D) = NR2 (C2F12011,C2F12012) \$
C1G72(C1G7012) = NR2 (C1G801,CRTP3D3) \$
C1G71(C1G7011) = A04 (CRTP3D0,E1C201,E1D201,CRTP3D1) \$
C1G7(PL3SHD7) = NR2 (C1G7011,C1G7012) \$
C1G62(C1G6012) = NR2 (C1G801,CRTP3D7) \$
C1G61(C1G6011) = A04 (CRTP3D1,E1C201,E1D201,CRTP3D3) \$
C1G6(PL3SHD6) = NR2 (C1G6011,C1G6012) \$
C1F52(C1F5012) = NR2 (C1G801,CRTP2D7) \$
C1F51(C1F5011) = A04 (CRTP3D3,E1C201,E1D201,CRTP3D7) \$
C1F5(PL3SHD4) = NR2 (C1F5011,C1F5012) \$
C2E20(C2E2001) = ND8 (C3D1NQ,C2E17NQ,C3E6Q,C3E1NQ,C3G1NQ
,C2F10NQ
,C2F8Q,CCC) \$
D3H9B(D3H901) = IV (ATTA3) \$
D3H9(D3H9Z) = MUX21L (D3G801,CGAM3Z,D3H801) \$
C2F4B(TXTSHD0) = ND2 (C2F401N,BLKCKZ) \$
C2F4(C2F401N) = ND2 (CRTP2D0,C1G1201) \$
C2G5B(TXTSHD7) = ND2 (C2G501N,BLKCKZ) \$
C2G5(C2G501N) = ND2 (C1G1201,CRTP2D7) \$
C1F9B(TXTSHD5) = ND2 (C1F901N,BLKCKZ) \$
C1F9(C1F901N) = ND2 (C1G1201,CRTP2D5) \$
C1F8B(TXTSHD6) = ND2 (C1F801N,BLKCKZ) \$
C1F8(C1F801N) = ND2 (C1G1201,CRTP2D6) \$
C1F13B(TXTSHD4) = ND2 (C1F1301N,BLKCKZ) \$
C1F13(C1F1301N) = ND2 (C1G1201,CRTP2D4) \$
C1F11B(TXTSHD3) = ND2 (C1F1101N,BLKCKZ) \$
C1F11(C1F1101N) = ND2 (C1G1201,CRTP2D3) \$
C1E13B(TXTSHD2) = ND2 (C1E1301N,BLKCKZ) \$
C1E13(C1E1301N) = ND2 (C1G1201,CRTP2D2) \$
C1E12B(TXTSHD1) = ND2 (C1E1201N,BLKCKZ) \$
C1E12(C1E1201N) = ND2 (CRTP2D1,C1G1201) \$
D2B12(,,DSPEN0,NDSPEN,DSPEN) = YFD3SI (DCLK
,D2B1301) \$
C3G1(C3G1Q,C3G1NQ,D3A1Q,) = YFD2MD (CRTP1D4,TEXTSHIFT,C3G1Q
) \$
C2F8(C2F8Q,,D2A14Q,) = YFD2MD (CRTP1D0,TEXTSHIFT,C2F8Q
) \$
D2A12(D2A12Q,,D2A13Q,) = YFD2MD (CRTP1D3,TEXTSHIFT,D2A12Q
) \$
C3F3(,,C3F2Q,C3F2NQ) = YFD2SI (DCLK,C3F7Q) \$
C3E1(C3E1Q,C3E1NQ,C3F1Q,) = YFD2MD (CRTP1D2,TEXTSHIFT,C3E1Q
) \$
C3D1(C3D1Q,C3D1NQ,C3D2Q,) = YFD2MD (CRTP1D6,TEXTSHIFT,C3D1Q
) \$
C2F10(C2F10Q,C2F10NQ,C2G17Q,) = YFD2MD (CRTP1D1,TEXTSHIFT,C2F10Q
) \$
C2E17(C2E17Q,C2E17NQ,C2E18Q,) = YFD2MD (CRTP1D5,TEXTSHIFT,C2E17Q
) \$

ATT33(ATT33Q0,ATT33Q0N,ATT33Q1,ATT33Q1NI,ATT33Q2,ATT33Q2N,ATT33Q3
,) = LDG4 (WTRATT33,DATAIN0,DATAIN1,DATAIN2,DATAIN3) \$
ATT12(ATTCPE0,,ATTCPE1,ATTCPEN1,ATTCPE2,ATTCPEN2,ATTCPE3
,ATTCPEN3,ATTVMX0,NATTVMX0,ATTVMX1,NATTVMX1) = LDG6
(WTRATT12,DATAIN0
,DATAIN1,DATAIN2,DATAIN3,DATAIN4,DATAIN5) \$
RB285(FATTCPPE3) = NR2 (ATTCPEN3,CHAN) \$
RB284(FATTCPPE2) = NR2 (ATTCPEN2,CHAN) \$
RB283(FATTCPPE1) = NR2 (ATTCPEN1,CHAN) \$
ATT30(ATT30Q0,D3BINQ,ATT30Q1,,ATT30Q2,,ATT30Q3
,ATT30Q3N,ATT30Q4,ATT30Q4N,ATT30Q5,,SCOLSEL,
) = LDG7 (WTRATT30,DATAIN0,DATAIN1,DATAIN2,DATAIN3
,DATAIN5,DATAIN6
,DATAIN7) \$
RB32(ATT30Q0N) = IVP (D3B1QC) \$
RB33(D3B1QC) = NR2 (D3BINQ,TEXT) \$
D1A2(E1C20) = ND2 (D1B301,C1G801) \$
D1A2A(,E1C201) = B2I (E1C20) \$
E1D1(E1D20) = NR2 (D1B301,GC256L) \$
E1D1A(E1D201) = B5I (E1D20) \$
F2D18(PELPS0) = IVP (PELPS0N) \$
D1B4(PLNLOAD) = B4I (PLNSHIFT) \$
C1G8(C1G801) = B5I (GC256L) \$
F3B1(PELPS1) = IVP (PELPS1N) \$
F3A7(PELPS2) = IVP (PELPS2N) \$
E5C1(OTB0Q,OTB0NQ) = YFD1 (PELP00,DCLK) \$
E4E13(OTB2Q,) = YFD1 (PELP02,DCLK) \$
E4B19(OTB1Q,OTB1NQ) = YFD1 (PELP10,DCLK) \$
E3G4(PELPSL8N) = IVP (PELPSL8) \$
D3G8(D3G801) = A07P (CGAM3Z,ATT30Q1,D3B10Q) \$
D3F9(PELPS1N) = AN2 (D3F14NQ,D3F10Q) \$
D3H13(PELPSL8) = AN4 (D3G11Q,D3F14NQ,NHERGR,CC89SELN) \$
D3H12(PELPS0N) = AN2 (D3F14NQ,D3G10Q) \$
D3F12(PELPS2N) = AN2 (D3F13Q,D3F14NQ) \$
D3H8(D3H801) = ND2 (ATT30Q3,ATT30Q0) \$
D3E13(D3E1301) = AN2 (D3C13Q,ATT30Q4) \$
D3D5(D3D501) = AN2 (ATT30Q2A,E3D1701) \$
D3B2(C1G1201) = ND4P (D2B17NQ,C3F2NQ,TEXBK,ATRBLINK) \$
D3F14(,D3F14NQ) = YFD2 (CCC,D3E1301,D3F1101) \$
D3G11(D3G11Q,) = YFD1 (ATT33Q3,D3F1101) \$
D3G10(D3G10Q,) = YFD1 (ATT33Q0,D3F1101) \$
D3G9(OTB3Q,) = YFD1 (PELP30,DCLK) \$
D3F13(D3F13Q,) = YFD1 (ATT33Q2,D3F1101) \$
D3F10(D3F10Q,) = YFD1 (ATT33Q1,D3F1101) \$
D2B18(D2B1801) = AN2 (D2B15Q,NTEXBK) \$
D2B13(D2B1301) = A07 (ATTA5,DSPTD2N,D2B14Q) \$
D2F13(N16CON) = ND3P (C1G801,DSPENM,BLANKGN) \$
OVSNS(OVSON) = ND2P (NDSPENP,BLANKGN) \$
RB79(NDSPENPI) = MUX21LP (BLANKP,DSPEN0,DSPTD2) \$
RB78(BLANKGN) = ND3P (R3D728Q2,BLANK1,DSPTD2) \$
D2D15(M13ON) = ND3P (GC256L,DSPENM,BLANKGN) \$
D2C16(D2C16Q,) = YFD1 (D3D501,TXTSHIFT) \$
D2B17(,D2B17NQ) = YFD1 (D2B15NQ,CRTLTH) \$
D2B15(D2B15Q,) = FD1 (CRTP1D7,TXTSHIFT) \$
D2B14(D2B14Q,) = YFD1 (C3G8Q,DCLK) \$
D2A16(D2A16Q,) = YFD1 (D2B1801,TXTSHIFT) \$
D2A11(D2A11Q,) = YFD1 (D2C16Q,CRTLTH) \$
D1H5(D1H501) = NR2 (D1B301,ATT02Q2N) \$
C3F4(C3F401) = ND3 (CSRBLINK,ATT30Q0N,C3F2Q) \$
C2F11(C2F1101) = OR2 (D3B1QC,TXTSHO) \$
C2G14(C2G1401) = OR2 (D3B1QC,TXTSHON) \$
C2G8(TXTSHI) = AN2 (D2A11Q,TXTSHD0) \$

C2G7(TXTLOAD) = IVP (TXTSHIFT) \$
C2G18(C2G18Q,) = YFD1 (C2E2001,CRTLTH) \$
C2F13(C1F1201) = ND2 (C3F401,C2G18Q) \$
BLKCK(BLKCKZ) = ND2P (C1G1201,C1F1201) \$
PL0SHR(PL0SHO,) = PSHFDD (DCLK,PL0SHI,PLNSHIFT,PLNLOAD,PL0SHD7
,PL0SHD6,PL0SHD5,PL0SHD4,PL0SHD3,PL0SHD2,PL0SHD1,PL0SHD0
) \$
PL1SHR(PL1SHO,) = PSHFDD (DCLK,PL1SHDI,PLNSHIFT,PLNLOAD,PL1SHD7
,PL1SHD6,PL1SHD5,PL1SHD4,PL1SHD3,PL1SHD2,PL1SHD1,PL1SHD0
) \$
PL2SHR(PL2SHO,) = PSHFDD (DCLK,PL3SHO,PLNSHIFT,PLNLOAD,PL2SHD7
,PL2SHD6,PL2SHD5,PL2SHD4,PL2SHD3,PL2SHD2,PL2SHD1,PL2SHD0
) \$
PL3SHR(PL3SHO,) = PSHFDD (DCLK,SSS,PLNSHIFT,PLNLOAD,PL3SHD7
,PL3SHD6,PL3SHD5,PL3SHD4,PL3SHD3,PL3SHD2,PL3SHD1,PL3SHD0
) \$
P2ADM(PRAMSBCI,) = FD1S (CGAM2Z,DCLK,ATTA2,ATTA5N) \$
P0ADM(E5D2QI,) = FD1S (CGAM0Z,DCLK,ATTA0,ATTA5N) \$
P1ADM(E5B1QI,) = FD1S (CGAM1Z,DCLK,ATTA1,ATTA5N) \$
P3ADM(PRAMSABI,) = FD1S (D3H9Z,DCLK,D3H901,ATTA5N) \$
TXTSHR(TXTSHO,TXTSHON) = PSHFDD (DCLK,TXTSHI,TXTSHIFT
,TXTLOAD,TXTSHD0
,TXTSHD1,TXTSHD2,TXTSHD3,TXTSHD4,TXTSHD5,TXTSHD6,TXTSHD7
) \$
D1G7(PL1SHDI,PL0SHI) = MUX42 (D1H501,PL3SHO,PL2SHO,PL2SHO
,PL1SHO
) \$
RB324(PELP10) = PELP1 (PELP1D,DCLK,PELPS0,PELPS1,PELPS2
,PELPSL8N
,PELPSL8,FATTCPE1) \$
RB124(CGASLB) = ND2 (CGAEN20,CGASL2N) \$
RB123(CGAEN20) = ND3 (OTB0NQ,OTB1NQ,CGASL1) \$
RB122(CGASLA) = ND2 (CGAEN10,CGASL1N) \$
RB121(CGAEN10) = ND2 (CGASL2M,OTB0Q) \$
CGAM1(CGAM1Z) = MUX41 (OTB1Q,OTB0Q,SSS,R3D9Q1,CGASLA,CGASLB
) \$
PELP2(PELP02) = PELP1 (PELPI2,DCLK,PELPS0,PELPS1,PELPS2
,PELPSL8N
,PELPSL8,FATTCPE2) \$
CGAM2(CGAM2Z) = MUX41 (OTB2Q,OTB1Q,SSS,R3D9Q2,CGASLA,CGASLB
) \$
BWINV(BWSP) = IV (R3B8Q2) \$
COLREP(COLROT) = ND2 (COLRBW,BWOUT) \$
BWSEL(BWOUT) = ND2 (R3B8Q2,OTB0Q) \$
COLBWS(COLRBW) = ND2 (R3D9Q5,BWSP) \$
CGAM0(CGAM0Z) = MUX41 (OTB0Q,COLROT,SSS,R3D9Q0,CGASLA,CGASLB
) \$
PELP0(PELP00) = PELP1 (PELP0D,DCLK,PELPS0,PELPS1,PELPS2
,PELPSL8N
,PELPSL8,ATTCPE0) \$
PELP3(PELP30) = PELP1 (PELP3D,DCLK,PELPS0,PELPS1,PELPS2
,PELPSL8N
,PELPSL8,FATTCPE3) \$
CGAM3(CGAM3Z) = MUX41 (OTB3Q,R3D9Q4,SSS,R3D9Q3,CGASLA,CGASLB
) \$
E3D12(DP02) = A04 (M13ON,PRAMD0,R3D72BQ0,BLANKGN) \$
E3D11(DP01) = A04 (N16CON,PRAMD0S,OVSON,ATT31Q0) \$
E3D1(DP0) = NR2 (DP01,DP02) \$
D2F162(DP62) = A04 (M13ON,PRAMD2S,R3D72BQ6,BLANKGN) \$
D2F161(DP61) = A04 (N16CON,ATT34Q2,OVSON,ATT31Q6) \$
D2F16(DP6) = NR2 (DP61,DP62) \$
E2H172(DP72) = A04 (M13ON,PRAMD3S,R3D72BQ7,BLANKGN) \$

```

E2H171( DP71 ) = A04 ( ATT34Q3,N16CON,OVSON,ATT31Q7 ) $
E2H17( DP7 ) = NR2 ( DP71,DP72 ) $
D3H32( DP12 ) = A04 ( M13ON,PRAMD1,R3D72BQ1,BLANKGN ) $
D3H31( DP11 ) = A04 ( N16CON,PRAMD1S,OVSON,ATT31Q1 ) $
D3H3( DP1 ) = NR2 ( DP11,DP12 ) $
E3A12( DP52 ) = A04 ( M13ON,PRAMD1S,R3D72BQ5,BLANKGN ) $
E3A11( DP51 ) = A04 ( D3C101,N16CON,OVSON,ATT31Q5 ) $
E3A1( DP5 ) = NR2 ( DP51,DP52 ) $
E3G12( DP32 ) = A04 ( M13ON,PRAMD3,R3D72BQ3,BLANKGN ) $
E3G11( DP31 ) = A04 ( N16CON,PRAMD3S,OVSON,ATT31Q3 ) $
E3G1( DP3 ) = NR2 ( DP31,DP32 ) $
D2H192( DP22 ) = A04 ( M13ON,PRAMD2,R3D72BQ2,BLANKGN ) $
D2H191( DP21 ) = A04 ( N16CON,PRAMD2S,OVSON,ATT31Q2 ) $
D2H19( DP2 ) = NR2 ( DP21,DP22 ) $
E2C152( DP42 ) = A04 ( M13ON,PRAMD0S,R3D72BQ4,BLANKGN ) $
E2C151( DP41 ) = A04 ( D3G201,N16CON,OVSON,ATT31Q4 ) $
E2C15( DP4 ) = NR2 ( DP41,DP42 ) $
D3G2( D3C101,D3G201 ) = MUX42 ( SCOLSELK,ATT34Q1,PRAMD5S
,ATT34Q0,PRAMD4S
) $
B1E1( PI0, ) = YFD1 ( DP0,M13CLK ) $
B2F4( PI6, ) = YFD1 ( DP6,M13CLK ) $
B3E1( PI7, ) = YFD1 ( DP7,M13CLK ) $
B3F8( PI1, ) = YFD1 ( DP1,M13CLK ) $
C1F1( PI5, ) = YFD1 ( DP5,M13CLK ) $
D1C1( PI3, ) = YFD1 ( DP3,M13CLK ) $
F1E1( PI4, ) = YFD1 ( DP4,M13CLK ) $
F3E9( PI2, ) = YFD1 ( DP2,M13CLK ) $
ATT31( ATT31Q0,,ATT31Q1,,ATT31Q2,,ATT31Q3
,,ATT31Q4,,ATT31Q5,,ATT31Q6,
,ATT31Q7, ) = LDG8 ( WTRATT31,DATAIN0,DATAIN1,DATAIN2,DATAIN3
,DATAIN4,DATAIN5,DATAIN6,DATAIN7 ) $
ATT34( ATT34Q0,,ATT34Q1,,ATT34Q2,,ATT34Q3
, ) = LDG4 ( WTRATT34,DATAIN0,DATAIN1,DATAIN2,DATAIN3 ) $
D3E3( ,,PRAMD5S, ) = YFD2SI ( DCLK,PLOUT5 ) $
D3G5( PRAMD1,,PRAMD1S, ) = YFD2SI ( DCLK,PLOUT1 ) $
E2A19( PRAMD2,,PRAMD2S, ) = YFD2SI ( DCLK,PLOUT2 ) $
E3B1( ,,PRAMD4S, ) = YFD2SI ( DCLK,PLOUT4 ) $
E3C2( PRAMD0,,PRAMD0S, ) = YFD2SI ( DCLK,PLOUT0 ) $
F3B3( PRAMD3,,PRAMD3S, ) = YFD2SI ( DCLK,PLOUT3 ) $
RAM610( PLOUT0,PLOUT1,PLOUT2,PLOUT3,PLOUT4,PLOUT5 ) = RAM610A
( PRAMCL
,E5D2Q,E5D2NQ,E5B1Q,E5B1NQ,PRAMSBC,PRAMSAD,PRAMSAB
,PRAMSCD,DATAIN0,DATAIN1,DATAIN2,DATAIN3,DATAIN4,DATAIN5
) $
E2C14( DPGRP1,DPGRP0 ) = MUX241 ( NATTVMX0,ATTVMX0,NATTVMX1
,ATTVMX1,DP0
,DP1,DP4,DP6,DP2,DP3,DP5,DP7
) $
RB125( CGASL2M ) = NR2 ( STP348Q,CGASL2N ) $
GCSDM( D1B301 ) = NR2 ( CGASL1,GCSHLD ) $
S348Q( STP348Q, ) = YFD2 ( CCC,STP348,D3F1101 ) $
TEXB( TEXBK ) = ND2 ( EMBLK,ATT30Q3N ) $
NTEXB( NTEXBK ) = IV ( TEXBK ) $
RB268( SCOLSELK ) = AN2 ( SCOLSEL,DSPTD2 ) $
END : MODULE $
MODULE : READ2I/// $
INPUTS :
A0,A1,A2,A3,A4,A5,A6,A7,B0,B1,B2,B3,B4A,B5,B6,B7,NRDA,NRDB
$
OUTPUTS :
Q0,Q1,Q2,Q3,Q4,Q5,Q6,Q7

```

```

$
DESCRIPTION : MODULE FOR READ2I $
LEVEL : FUNCTION $
USE :
    A02 /// MASTER
    ,IV /// MASTER

```

```

$
DEFINE :
    AMUX0( PQ0 ) = A02 ( A0,SA,B0,SB ) $
    AMUX1( PQ1 ) = A02 ( A1,SA,B1,SB ) $
    AMUX2( PQ2 ) = A02 ( A2,SA,B2,SB ) $
    AMUX3( PQ3 ) = A02 ( A3,SA,B3,SB ) $
    AMUX4( PQ4 ) = A02 ( A4,SA,B4A,SB ) $
    AMUX5( PQ5 ) = A02 ( A5,SA,B5,SB ) $
    AMUX6( PQ6 ) = A02 ( A6,SA,B6,SB ) $
    AMUX7( PQ7 ) = A02 ( A7,SA,B7,SB ) $
    INV3( Q0 ) = IV ( PQ0 ) $
    INV4( Q1 ) = IV ( PQ1 ) $
    INV5( Q2 ) = IV ( PQ2 ) $
    INV6( Q3 ) = IV ( PQ3 ) $
    INV7( Q4 ) = IV ( PQ4 ) $
    INV8( Q5 ) = IV ( PQ5 ) $
    INV9( Q6 ) = IV ( PQ6 ) $
    INV10( Q7 ) = IV ( PQ7 ) $
    INV1( SA ) = IV ( NRDA ) $
    INV2( SB ) = IV ( NRDB ) $

```

```

END : MODULE $
MODULE : PALIF/// $
INPUTS :
    IPALCLK,AR10D6,DOTCLK,IPAL5,IPAL4,IPAL3,IPAL2,IPAL1,IPAL0

```

```

$
OUTPUTS :
    IPAL5D,IPAL4D,IPAL3D,IPAL2D,IPAL1D,IPAL0D

```

```

$
DESCRIPTION : MODULE FOR PALIF $
LEVEL : FUNCTION $
USE :
    B4I /// MASTER
    ,SEL612 ///
    ,DFF6 ///

```

```

$
DEFINE :
    RB630( NDOTCLK ) = B4I ( DOTCLK ) $
    RB620( IPAL0DID,IPAL1DID,IPAL2DID,IPAL3DID,IPAL4DID,IPAL5DID
    ) = SEL612 ( IPAL0I
    ,IPAL1I,IPAL2I,IPAL3I,IPAL4I,IPAL5I,IPAL0DI,IPAL1DI
    ,IPAL2DI,IPAL3DI,IPAL4DI,IPAL5DI,AR10D6 ) $
    RB612( IPAL0D,IPAL1D,IPAL2D,IPAL3D,IPAL4D,IPAL5D ) = DFF6
    ( IPAL0DID
    ,IPAL1DID,IPAL2DID,IPAL3DID,IPAL4DID,IPAL5DID,DOTCLK ) $
    RB607( IPAL0DI,IPAL1DI,IPAL2DI,IPAL3DI,IPAL4DI,IPAL5DI )
    = DFF6 ( IPAL0I
    ,IPAL1I,IPAL2I,IPAL3I,IPAL4I,IPAL5I,NDOTCLK ) $
    RB593( IPAL0I,IPAL1I,IPAL2I,IPAL3I,IPAL4I,IPAL5I ) = DFF6 ( IPAL0
    ,IPAL1,IPAL2,IPAL3,IPAL4,IPAL5,IPALCLK ) $

```

```

END : MODULE $
MODULE : MUX881/// $
INPUTS :
    S0,S1,S2,D00,D10,D20,D30,D40,D50,D60,D70,D01,D11,D21,D31,D41
    ,D51,D61,D71,D02,D12,D22,D32,D42,D52,D62,D72,D03,D13,D23,D33,D43

```

,D53,D63,D73,D04,D14,D24,D34,D44,D54,D64,D74,D05,D15,D25,D35,D45
,D55,D65,D75,D06,D16,D26,D36,D46,D56,D66,D76,D07,D17,D27,D37,D47
,D57,D67,D77

\$

OUTPUTS :

DOUT0,DOUT1,DOUT2,DOUT3,DOUT4,DOUT5,DOUT6,DOUT7

\$

DESCRIPTION : MODULE FOR MUX881 \$

LEVEL : FUNCTION \$

USE :

MUX81 /// MASTER

\$

DEFINE :

RB105(DOUT0) = MUX81 (D00,D10,D20,D30,D40,D50
,D60,D70,S0,S1,S2) \$

RB104(DOUT1) = MUX81 (D01,D11,D21,D31,D41,D51
,D61,D71,S0,S1,S2) \$

RB103(DOUT2) = MUX81 (D02,D12,D22,D32,D42,D52
,D62,D72,S0,S1,S2) \$

RB102(DOUT3) = MUX81 (D03,D13,D23,D33,D43,D53
,D63,D73,S0,S1,S2) \$

RB98(DOUT4) = MUX81 (D04,D14,D24,D34,D44,D54
,D64,D74,S0,S1,S2) \$

RB95(DOUT5) = MUX81 (D05,D15,D25,D35,D45,D55
,D65,D75,S0,S1,S2) \$

RB86(DOUT6) = MUX81 (D06,D16,D26,D36,D46,D56
,D66,D76,S0,S1,S2) \$

BX1(DOUT7) = MUX81 (D07,D17,D27,D37,D47,D57
,D67,D77,S0,S1,S2) \$

END : MODULE \$

MODULE : MUX851/// \$

INPUTS :

D23,D21,D24,D22,D20,D13,D11,D14,D12,D10,D33,D31,D34,D32,D30,D03
,D01,D04,D02,D00,D73,D71,D74,D72,D70,D63,D61,D64,D62,D60,D53,D51
,D54,D52,D50,D43,SEL3,SEL1,D41,D44,SEL4,SEL2,D42,SEL0,D40

\$

OUTPUTS :

D0,D1,D2,D3,D4,D5,D6,D7

\$

DESCRIPTION : MODULE FOR MUX851 \$

LEVEL : FUNCTION \$

USE :

ORA25 ///

\$

DEFINE :

RB106(D2) = ORA25 (SEL1,D21,D24,SEL4,SEL2,D22
,SEL0,D20,D23,SEL3) \$

RB105(D1) = ORA25 (D11,SEL1,D14,SEL4,SEL2,D12
,SEL0,D10,D13,SEL3) \$

RB104(D3) = ORA25 (SEL1,D31,D34,SEL4,SEL2,D32
,SEL0,D30,D33,SEL3) \$

RB103(D0) = ORA25 (SEL1,D01,D04,SEL4,SEL2,D02
,SEL0,D00,D03,SEL3) \$

RB102(D7) = ORA25 (SEL1,D71,D74,SEL4,SEL2,D72
,SEL0,D70,D73,SEL3) \$

RB98(D6) = ORA25 (SEL1,D61,D64,SEL4,SEL2,D62
,SEL0,D60,SEL3,D63) \$

RB95(D5) = ORA25 (SEL1,D51,D54,SEL4,SEL2,D52
,SEL0,D50,D53,SEL3) \$

RB86(D4) = ORA25 (SEL1,D41,D44,SEL4,SEL2,D42

,SEL0,D40,D43,SEL3) \$

END : MODULE \$

MODULE : LD8L/// \$

INPUTS :

CL,D0,D1,D2,D3,D4,D5,D6,D7

\$

OUTPUTS :

Q0,NQ0,Q1,NQ1,Q2,NQ2,Q3,NQ3,Q4,NQ4,Q5,NQ5,Q6,NQ6,Q7,NQ7

\$

DESCRIPTION : MODULE FOR LD8L \$

LEVEL : FUNCTION \$

USE :

LD2P /// MASTER

\$

DEFINE :

RB86(Q0,NQ0) = LD2P (D0,CL) \$

RB95(Q1,NQ1) = LD2P (D1,CL) \$

RB98(Q2,NQ2) = LD2P (D2,CL) \$

RB102(Q3,NQ3) = LD2P (D3,CL) \$

RB103(Q4,NQ4) = LD2P (D4,CL) \$

RB104(Q5,NQ5) = LD2P (D5,CL) \$

RB105(Q6,NQ6) = LD2P (D6,CL) \$

RB106(Q7,NQ7) = LD2P (D7,CL) \$

END : MODULE \$

MODULE : LD8/// \$

INPUTS :

CL,D0,D1,D2,D3,D4,D5,D6,D7

\$

OUTPUTS :

Q0,NQ0,Q1,NQ1,Q2,NQ2,Q3,NQ3,Q4,NQ4,Q5,NQ5,Q6,NQ6,Q7,NQ7

\$

DESCRIPTION : MODULE FOR LD8 \$

LEVEL : FUNCTION \$

USE :

LD2P /// MASTER

,B4I /// MASTER

\$

DEFINE :

RB86(PNQ0,PQ0) = LD2P (D0,CL) \$

B1A(NQ0) = B4I (PNQ0) \$

RB87(Q0) = B4I (PQ0) \$

RB95(PNQ1,PQ1) = LD2P (D1,CL) \$

B2A(NQ1) = B4I (PNQ1) \$

RB96(Q1) = B4I (PQ1) \$

RB98(Q2,NQ2) = LD2P (D2,CL) \$

RB102(Q3,NQ3) = LD2P (D3,CL) \$

RB103(Q4,NQ4) = LD2P (D4,CL) \$

RB104(Q5,NQ5) = LD2P (D5,CL) \$

RB105(Q6,NQ6) = LD2P (D6,CL) \$

RB106(Q7,NQ7) = LD2P (D7,CL) \$

END : MODULE \$

MODULE : GCDEC2/// \$

INPUTS :

DATAIN3,DATAIN2,DATAIN1,DATAIN0,WTGCADDR,WT3CEF

\$

OUTPUTS :

WTRGC04,GCAQ3,GCAQ2,GCAQ1,GCAQ0,WTRGC07,WTRGC06,WTRGC01,WTRGC02

,WTRGC00,WTRGC03,WTRGC05,WTRGC08,GC05A0,GC08A0,GC03A0,GC06A0,GC04A0

,GC01A0,GC07A0,GC00A0,GC02A0,GC00A0N,GC03A0N

\$

DESCRIPTION : MODULE FOR GCDEC2 \$

LEVEL : FUNCTION \$

USE :

IV /// MASTER
,D24L /// MASTER
,IVP /// MASTER
,ND2 /// MASTER
,AN2 /// MASTER
,LDG4 ///

\$

DEFINE :

RB164(GC01XX) = IV (C1B1402N) \$
RB163(GC10XX) = IV (C1B1401N) \$
RB162(GC00XX) = IV (C1B1400N) \$
C1B14(C1B1400N,C1B1401N,C1B1402N,) = D24L (GCAQ3,GCAQ2) \$
RB168(GCXX11) = IV (C1C1403N) \$
RB167(GCXX01) = IV (C1C1402N) \$
RB166(GCXX10) = IV (C1C1401N) \$
RB165(GCXX00) = IV (C1C1400N) \$
C1C14(C1C1400N,C1C1401N,C1C1402N,C1C1403N) = D24L (GCAQ1
,GCAQ0) \$
B2G4(GC00A0N) = IVP (GC00A0) \$
B2G5(GC03A0N) = IVP (GC03A0) \$
B2G6(WTRGC00) = ND2 (GC00A0,WT3CEF) \$
B2G14(WTRGC02) = ND2 (GC02A0,WT3CEF) \$
C1B10(WTRGC01) = ND2 (WT3CEF,GC01A0) \$
C1E7(WTRGC06) = ND2 (GC06A0,WT3CEF) \$
C1F10(WTRGC05) = ND2 (GC05A0,WT3CEF) \$
C1C10(GC01A0) = AN2 (GCXX01,GC00XX) \$
C1C13(GC02A0) = AN2 (GC00XX,GCXX10) \$
C1D12(GC06A0) = AN2 (GC01XX,GCXX10) \$
C1D13(GC05A0) = AN2 (GC01XX,GCXX01) \$
C1B13(GC08A0) = AN2 (GC10XX,GCXX00) \$
C2A12(WTRGC03) = ND2 (GC03A0,WT3CEF) \$
C2B14(WTRGC07) = ND2 (GC07A0,WT3CEF) \$
C2D11(WTRGC08) = ND2 (WT3CEF,GC08A0) \$
C2C7(WTRGC04) = ND2 (WT3CEF,GC04A0) \$
C2B1(GC04A0) = AN2 (GC01XX,GCXX00) \$
C2C1(GC00A0) = AN2 (GCXX00,GC00XX) \$
C2C2(GC03A0) = AN2 (GCXX11,GC00XX) \$
C2B2(GC07A0) = AN2 (GCXX11,GC01XX) \$
GCADDR(GCAQ0,,GCAQ1,,GCAQ2,,GCAQ3
,) = LDG4 (WTGCADDR,DATAIN0,DATAIN1,DATAIN2,DATAIN3) \$

END : MODULE \$

MODULE : DATMX1/// \$

INPUTS :

DI0,DI1,DI2,DI3,DI4,DI5,DI6,DI7,DI8,DI9,DI10,DI11,DI12,DI13,DI14
,DI15,SELA,SELB

\$

OUTPUTS :

D00,D01,D02,D03,D04,D05,D06,D07,D08,D09,D010,D011,D012,D013,D014
,D015

\$

DESCRIPTION : MODULE FOR DATMX1 \$

LEVEL : FUNCTION \$

USE :

MXRBO2 ///
,MXRBO1 ///

\$

DEFINE :

```

AMUX0( DO8,DO9,DO10,DO11 ) = MXRBO2 ( DI8,DI0,DI9
,DI1,DI10,DI2,DI11,DI3,SELA ) $
AMUX1( DO12,DO13,DO14,DO15 ) = MXRBO2 ( DI12,DI4,DI13
,DI5,DI14,DI6,DI15,DI7,SELA ) $
BMUX0( DO0,DO1,DO2,DO3 ) = MXRBO1 ( DI0,DI8,DI1
,DI9,DI2,DI10,DI3,DI11,SELB ) $
BMUX1( DO4,DO5,DO6,DO7 ) = MXRBO1 ( DI4,DI12,DI5
,DI13,DI6,DI14,DI7,DI15,SELB ) $
END : MODULE $
MODULE : CRTC01/// $
INPUTS :
U4Z,NHERGR,EQLWCLK,VERTA0,VERTA1,VERTA2,VERTA3,VERTA4,VERTA5
,VERTA6,VERTA7,VERRSA0,VERRSA1,VERRSA2,VERRSA3,VERRSA4,VERRSA5
,VERRSA6,VERRSA7,VERREA0,VERREA1,VERREA2,VERREA3,VERDEA0,VERDEA1
,VERDEA2,VERDEA3,VERDEA4,VERDEA5,VERDEA6,VERDEA7,CRT07QA0,CRT07QA1
,CRT07QA2,CRT07QA5,CRT07QA6,CRT07QA7,NT69,NE6845,E6845,NT112,NT113
,C3G1901,VGAMOD,WREXR,R3D6Q0,R3D6NQ0,R3D6Q1,R3D6NQ1,R3D6Q2,R3D6NQ2
,R3D6NQ3,R3D6NQ4,R3D6Q5,R3D6Q6,R3D6Q7,TEST1Z,WCRTC15,WCRTC12,WCRTC16
,WCRTC10,WCRTC18,WCRTC06,SCROFF,CHRESET,DATAIN5,DATAIN4,DATAIN6
,DATAIN7,DATAIN3,DATAIN2,DATAIN1,DATAIN0,VERBS9,LINEC9,NRESET
,TESTCZ,TESTAZ,TESTBZ,TEST0Z,ATT30Q4N,CCC,ATT30Q0N,D3B1QC,TXTSHIFT
,NT114,CRTAQ5,CRTAQ3,CRTAQ4N,CRTAQQ5,CRTAQQ4,WCRTC07A,WCRT0T7
,W3BD45,WCRTC02,WCRTC04,WCRTC05,WCRTC03,WCRTC07,WCRTC00,WCRTC01
,IOCMDWR,NCLRHC,NCHRCLK,REF5PL,R3C2Q7,R3C2Q6,R3BDAQ2,CRTCM2,NCRTCM2
,CHRCLK,EWIO010N,VGAENW,C5D601,NT83,CRTC8Q5,CRTC8Q6,A3C1701,VERCNT9
,VERCNT8,VERCNT7,VERCNT6,VERCNT5,VERCNT4,VERCNT3,VERCNT2,VERCNT1
,VERCNT0,HVCVDE,DSPTD2,EQHDEE,EQHDES,NKILL1,STRCHP,STRCHM,B4E4Q
,ULINE,VDELN,VDEL,DCK2DIVN,SSS,VPU,CVC0,CVC1,CVC2,CVC3,CVC4,CVC5
,CVC6,CVC7,CVC8,CVC9
$
OUTPUTS :
VBLKSP,NT103,NT52,D3C13QP,NVERDE7,LPSTB,C3G901,BCRR0,BCRR1,BCRR2
,BCRR3,BCRR4,BCRR5,BCRR6,BCRR7,VERT7,VERT6,VERT5,VERT4,VERT3,VERT2
,VERT1,VERT0,VERRS7,VERRS6,VERRS5,VERRS4,VERRS3,VERRS2,VERRS1
,VERRS0,VERDE7,VERDE6,VERDE5,VERDE4,VERDE3,VERDE2,VERDE1,VERDE0
,VERBS7,VERBS6,VERBS5,VERBS4,VERBS3,VERBS2,VERBS1,VERBS0,VERBE7
,VERBE6,VERBE5,VERBE4,VERBE3,VERBE2,VERBE1,VERBE0,LINEC7,LINEC6
,LINEC5,LINEC4,LINEC3,LINEC2,LINEC1,LINEC0,ENDVSYNC,ENDVBLNK
,ENDVERDE
,EQVTOT,STVERB,LCOMP,LCOMP,STVERR,POS102Q0,CRT07Q4,PROT07,VERRE3
,VERRE2,VERRE1,VERRE0,CRT07Q7,CRT07Q6,CRT07Q5,CRT07Q3,CRT07Q2
,CRT07Q1,CRT07Q0,NT45,CRTINT,ADD16NMR,XDSYNC,DHSYNC,D3C13Q,CRT010X
,HORBE7,WCRT0T7P,D3F1101,NVERINC,D3A1201,NVERINE,B4G4Q,SCROFFQ
,C3D501,C3F7Q,C3E6Q,C3D701,C3B11NQ,C3G1601,C3A701,HORRE6,HORBE6
,C2B1801,C2C2201,VDSPLYEN,C4A9Q,B4G5Q,B4E301,NT26,ENDHORRE,HORRE4
,HORBE4,HORRE7,C3A10NQ,ENDHOR,CRTRSB,D3A401,B3A1301,B3F1101,C2B1701
,C3A1401,C3G8Q,BLANK5,HORRE5,HORBE5,B3F7NQ,B4F801,HORRS4,HORRS3
,HORRS2,HORRS6,HORRS7,HORRS5,HORRS1,HORRS0,ENDHORB,HORB5,HORB7
,HORB6,HORB3,HORB1,HORB2,HORB4,HORB0,B4B1001,HORT6,HORT4,HORT5
,HORT2,HORT1,HORT3,HORT0,HORT7,B5C501,HORDI2,HORDI3,HORDI1,HORDI0
,HORDI6,HORDI5,HORDI7,HORDI4,HORBE2,HORBE3,HORBE0,HORBE1,HORRE3
,HORRE1,HORRE2,HORRE0,C3A10Q,EVC9,EVC8,EVC7,EVC6,EVC5,EVC4,EVC3
,EVC2,EVC1,EVC0,OB4E4Q,C3A16NQ,VCNTRSET,HCONT7,HCONT6,HCONT5,HCONT4
,HCONT3,HCONT2,HCONT1,HCONT0,ONCEPERH,AHORB0,AHORB1,AHORB2,AHORB3
,AHORB4,AHORB5,AHORB6,AHORB7,AHORBE0,AHORBE1,AHORBE2,AHORBE3,AHORBE4
,AHORBE5,AHORBE6,AHORBE7,DCK2PNL,AHCRN
$
DESCRIPTION : MODULE FOR CRTC01 $
LEVEL : FUNCTION $
USE :
AN2 /// MASTER
,IV /// MASTER

```

```

,MUX41 /// MASTER
,YFD1 /// MASTER
,ND2 /// MASTER
,NR2 /// MASTER
,EQUL4NP ///
,EQUL4N ///
,EQUL8P ///
,EQUL8 ///
,MUXFD1 ///
,OR2 /// MASTER
,ND3 /// MASTER
,YFD2 /// MASTER
,FD2 /// MASTER
,FJK2 /// MASTER
,EO /// MASTER
,NR3 /// MASTER
,FJK2P /// MASTER
,A06 /// MASTER
,EN /// MASTER
,A02 /// MASTER
,A07P /// MASTER
,IVP /// MASTER
,AN4 /// MASTER
,FD2P /// MASTER
,AN3 /// MASTER
,OR3 /// MASTER
,EOP /// MASTER
,A07 /// MASTER
,A02P /// MASTER
,B4IP /// MASTER
,FT2 /// MASTER
,FD4 /// MASTER
,YLDG8 ///
,YLDG5 ///
,LDG3 ///
,YLDG7 ///
,YLDG4 ///
,YFFD2 ///
,LD2 /// MASTER
,YFD2SI ///
,TCNT4 ///
,VERTC2C ///
,A2T1B8 ///
,MUX21L /// MASTER
,A2T1B7 ///
,READ6 ///
,NR2P /// MASTER
,LDG2 ///
,LD4 /// MASTER
,NR4 /// MASTER
,MUX21HP /// MASTER
,SEL816 ///
,B2I /// MASTER

```

\$

DEFINE :

```

RB555( NCRTCM2D ) = AN2 ( U4Z,NCRTCM2 ) $
NEWIV( NREF5PL ) = IV ( REF5PL ) $
K98( K98Z ) = MUX41 ( M17Z,K90Q,K91Q,K92Q,HORBE5,HORBE6
) $
K92( K92Q, ) = YFD1 ( K91Q,NCHRCLK ) $
K91( K91Q, ) = YFD1 ( K90Q,NCHRCLK ) $

```

K90(K90Q,) = YFD1 (M17Z,NCHRCLK) \$
RB256(TEXTALL) = ND2 (D3B1QC,NHGPNL) \$
RB255(NHGPNL) = IV (HGPNL) \$
RB254(GRAFALL) = NR2 (HGPNL,ATT30Q0N) \$
RB253(HGPNL) = NR2 (DSPTD2,NHERGR) \$
B5D5(B5D401) = EQU4NP (FHORRE0,HCONT0,FHORRE1,HCONT1
,FHORRE2,HCONT2
,FHORRE3,HCONT3,DCK2PNL) \$
C5C9(C5C1001) = EQU4N (FHORBE0,FHORBE3,FHORBE2,HCONT1
,HCONT0,HCONT3
,HCONT2,FHORBE1) \$
RB180(B5C501) = EQU8P (FHORDI0,HCONT0,FHORDI1,HCONT1
,FHORDI2,HCONT2
,FHORDI3,HCONT3,FHORDI4,HCONT4,FHORDI5,HCONT5,FHORDI6
,HCONT6,FHORDI7,HCONT7,DCK2PNL) \$
HTOTAL(B4B1001) = EQU8P (HCONT0,FHORT0,HCONT1,FHORT1
,HCONT2,FHORT2
,HCONT3,FHORT3,HCONT4,FHORT4,HCONT5,FHORT5,HCONT6
,FHORT6,HCONT7,FHORT7,DCK2PNL) \$
RB388(ENDHORB) = EQU8 (HCONT0,HCONT1,HCONT2,HCONT3
,HCONT4,HCONT5
,HCONT6,HCONT7,FHORB0,FHORB1,FHORB2,FHORB3,FHORB4
,FHORB5,FHORB6,FHORB7) \$
C5A14(B4F801) = EQU8P (FHORRS0,HCONT0,FHORRS1,HCONT1
,FHORRS2,HCONT2
,FHORRS3,HCONT3,FHORRS4,HCONT4,FHORRS5,HCONT5,FHORRS6
,HCONT6,FHORRS7,HCONT7,DCK2PNL) \$
B3F9(B3F1101) = MUX41 (B3E7Q,B3E9Q,B3E10Q,B3D10Q,B3E12NQ
,B3E11NQ
) \$
C3C7(C3B601) = MUX41 (M7Q,M15QN,C3C5Q,B3G6Q,FHORBE5,FHORBE6
) \$
C3E11(DHSYNC) = MUX41 (B4E4Q,B3G8Q,C3E9Q,C3E10Q,FHORRE5,FHORRE6
) \$
C3E2(,BLANK5) = MUXFD1 (TXTSHIFT,C3E3Q,ATT30Q0N,D3B1QC,C3D4Q
) \$
C3G6(,C3G8Q) = MUXFD1 (TXTSHIFT,C3G7Q,TEXTALL,GRAFALL,C3G5Q
) \$
A3D16(A3D16Q,) = YFD1 (A3C1701,C3A1401) \$
C13NQ(D3C13NQ) = ND2 (NE6845,D3C13QP) \$
KUM26(OKUM26) = OR2 (VDEL,DSPTD2) \$
LINC(LINCMPD) = ND3 (NE6845,E4F6Q,OKUM26) \$
B3A13(B3A1301) = ND2 (B3B17Q,B3A14NQ) \$
B3A14(,B3A14NQ) = YFD1 (B3B17Q,CHRCLK) \$
B3B17(B3B17Q,) = YFD1 (A3D16Q,CHRCLK) \$
B3D10(B3D10Q,) = YFD2 (B3E10Q,NCHRCLK,NRESET) \$
B3E8(B3E8Q,) = YFD2 (B3F7NQ,CHRCLK,NRESET) \$
B3E9(B3E9Q,) = YFD2 (B3E7Q,NCHRCLK,NRESET) \$
B3E10(B3E10Q,) = YFD2 (B3E9Q,NCHRCLK,NRESET) \$
B3E11(,B3E11NQ) = YFD2 (CRT8Q6,D3A401,D3D1201) \$
B3E12(,B3E12NQ) = YFD2 (CRT8Q5,D3A401,D3D1201) \$
B3G6(B3G6Q,) = YFD2 (C3C5Q,NCHRCLK,NRESET) \$
B3G8(B3G8Q,) = YFD2 (B4E4Q,NCHRCLK,CRTRSB) \$
B3G12(BENDHOR,BENDHORN) = FD2 (B3G1001,CHRCLK,NRESET) \$
B3E7(B3E7Q,) = FJK2 (M16Z,B3E8Q,NCHRCLK,NRESET) \$
B3G10(B3G1001) = AN2 (M6Q,M7QN) \$
B4A9(B4A901) = EO (TEST0Z,HCNTN3) \$
B4A10(B4A1001) = EO (FHORRE7,HCONT5) \$
B4C12(B4C1201) = EO (FHORBE4,HCONT4) \$
B4D13(B4D1301) = EO (FHORRE4,HCONT4) \$
B4D17(ENDHORRE) = NR2 (B4D1301,B5D401) \$
B4C11(NT26) = NR3 (C5C1001,B4C1201,B4A1001) \$

B4E3(B4E301) = AN2 (B4E4NQ,C3A9Q) \$
B4E4(OB4E4Q,) = FJK2P (B4F801,ENDHORRE,NCHRCLK,CRTRSB) \$
B4G5(B4G5Q,) = FJK2 (ENDHORB,NT26,NCHRCLK,NRESET) \$
C2E19(C2E1901) = A06 (R3BDAQ2,VDSPLYEN,C4A9Q) \$
C2B17(C2B1701) = EN (C2E1901,R3C2Q7) \$
C2C22(C2C2201) = NR2 (C3C5Q,C3C201) \$
C2B18(C2B1801) = NR2 (B3F7NQ,NT30) \$
C3C3(C3C3AZ) = A02 (C3B1Q,REF5PL,NREF5PL,C3C4Q) \$
IC13Q(D3C13Q) = IV (D3C13NQ) \$
GLPSTB(LPSTB) = A07P (E4G6Q,E4F6NQ,E6845) \$
C3A7(C3A701) = ND2 (C3A9NQ,B3F1101) \$
C3A13(C3A1301) = IVP (B3G8Q) \$
C3E4(C3E401) = IVP (C3E501) \$
C3G11(C3G1101) = IVP (NCHRCLK) \$
C3A9(C3A9Q,C3A9NQ) = FJK2 (B3F1101,M17Z,NCHRCLK,NRESET) \$
C3A10(C3A10Q,C3A10NQ) = FJK2 (B3D10Q,K98Z,NCHRCLK,NRESET) \$
C3A14(C3A1401) = AN4 (M201,B3G8Q,M801,NKILL3) \$
C3A15(C3A1501) = AN2 (NT83,C3A16NQ) \$
C3A16(,C3A16NQ) = FD2 (M1301,C3A1301,FBFCRT8Z) \$
C3B1(C3B1Q,) = YFD2 (C3B2Q,NCHRCLK,NRESET) \$
C3B2(C3B2Q,) = YFD2 (C3C4Q,NCHRCLK,NRESET) \$
C3B11(C3G1601,C3B11NQ) = FD2P (C3E13Q,NCHRCLK,NRESET) \$
C3C1(C3C1Q,) = YFD2 (C3B1Q,NCHRCLK,NRESET) \$
C3C4(C3C4Q,) = YFD2 (B3G6Q,NCHRCLK,NRESET) \$
C3C5(C3C5Q,C3C5NQ) = YFD2 (M15QN,NCHRCLK,NRESET) \$
C3E9(C3E9Q,) = YFD2 (B3G8Q,NCHRCLK,CRTRSB) \$
C3E10(C3E10Q,) = YFD2 (C3E9Q,NCHRCLK,CRTRSB) \$
C3E13(C3E13Q,) = YFD2 (VDSPLYEN,NCHRCLK,NRESET) \$
C3C2(C3C201) = A02 (C3C1Q,REF5PL,NREF5PL,C3B2Q) \$
C3G17(C3G1701) = A02 (C3G12NQ,C3G1901,C5D601,C3G12Q) \$
C3D7(C3D701) = OR2 (C3B601,C3A9Q) \$
C3E6(C3E6QI,) = YFD1 (C3F901,C3E401) \$
C3F7(C3F7Q,) = YFD1 (C3F901,TXTSHIFT) \$
C3G12(C3G12Q,C3G12NQ) = YFD1 (B4G5Q,C3G1101) \$
C3D5(C3D501) = AN3 (NCHRCLK,C3C5NQ,C3B4NQ) \$
C3G9(C3G901) = AN3 (HVCVDE,NRESET,B3A1301) \$
C3E5(C3E501) = EO (C3E801,TESTBZ) \$
C3F9(C3F901I) = EN (TESTAZ,C3G1701) \$
C3E8(C3E801) = OR3 (SCROFFQ,B4G4Q,B4G5Q) \$
C3F5(C3F501) = AN2 (VDSPLYEN,C3B601) \$
D2F2(WTP0S102) = OR2 (IOCMDWR,EWIO010N) \$
D3A3(D3A3Q,) = YFD1 (C4A9Q,TXTSHIFT) \$
D3A4(D3A401) = EOP (TESTCZ,D3A3Q) \$
D3A12(D3A1201) = NR2 (NVERINE,D3B12NQ) \$
D3B14(D3B1401) = AN2 (NRESET,NVERINC) \$
D3F11(D3F1101) = IVP (D3A401) \$
D3D12(D3D12Z) = A07 (ATT30Q4N,D3C13NQ,NRESET) \$
D3D12A(D3D1201) = IVP (D3D12Z) \$
D3H11(XDHSYNC) = EO (DHSYNC,R3C2Q6) \$
D4A11(WCRT0T7P) = AN3 (WCRT0T7,NPROT07,NT69) \$
D4E5(D4E501) = ND2 (DATAIN0,D4H1201) \$
D4A16(D4A16AZ) = A02P (OB4E4Q,NCRTCM2D,CRTCM2,D4B19NQ) \$
D4A16A(ONCEPERH) = B4IP (D4A16AZ) \$
D4B19(,D4B19NQ) = FT2 (B4E4Q,NRESET) \$
D4H12(D4H1201) = AN3 (W3BD45,CRTAQQ5,CRTAQQ4) \$
D4F121(OD4F121) = NR3 (HORBE7,CRTAQ4N,CRTAQ5) \$
RB179(D4F122) = IV (CRTAQ3) \$
D4F12(CRT010X) = ND2 (OD4F121,D4F122) \$
E3H13(E3H1301) = IV (VGAENW) \$
E3H14(CRTINT) = ND2 (E3H1301,D3A1201) \$
E4F6(E4F6Q,E4F6NQ) = FD4 (D3C13QP,NCHRCLK,NRESET) \$
E4G6(E4G6Q,) = YFD2 (E4F6Q,NCHRCLK,NRESET) \$

E4H7(E4H7Q,) = YFD2 (E4G6Q,NCHRCLK,NRESET) \$
F4A14(F4A1401) = A07 (E4H7Q,LINCMPD,NRESET) \$
F4B10(ADD16NMR) = IVP (F4A1401) \$
B3F7(,B3F7NQ) = FD2 (C3A10NQ,NCHRCLK,NRESET) \$
C3B4(,C3B4NQ) = FD4 (C3C3AZ,CHRCLK,NRESET) \$
D3B12(,D3B12NQ) = YFD2 (CCC,NT45,D3B1401) \$
RB152(CRTRSB,) = YFD2 (DATAIN7,NT114,NRESET) \$
RB136(HORDIN7,HORDI7,HORDIN6,HORDI6,HORDIN5,HORDI5,HORDIN4
,HORDI4,HORDIN3,HORDI3,HORDIN2,HORDI2,HORDIN1,HORDI1
,HORDIN0,HORDI0) = YLDG8 (DATAIN7,DATAIN6,DATAIN5
,DATAIN4,DATAIN3
,DATAIN2,DATAIN1,DATAIN0,WCRTC01) \$
CRTC00(HORTN7,HORT7,HORTN6,HORT6,HORTN5,HORT5,HORTN4
,HORT4,HORTN3,HORT3,HORTN2,HORT2,HORTN1,HORT1
,HORTN0,HORT0) = YLDG8 (DATAIN7,DATAIN6,DATAIN5,DATAIN4
,DATAIN3
,DATAIN2,DATAIN1,DATAIN0,WCRTC00) \$
RB140(HORREN4,HORRE4,HORREN3,HORRE3,HORREN2,HORRE2,HORREN1
,HORRE1,HORREN0,HORRE0) = YLDG5 (DATAIN4,DATAIN3,DATAIN2
,DATAIN1
,DATAIN0,WCRTC05) \$
RB139(HORRE5,HORREN5,HORRE6,HORREN6,HORRE7,HORREN7) =
LDG3 (WCRTC05
,DATAIN5,DATAIN6,DATAIN7) \$
CRTC02(HORBN7,HORB7,HORBN6,HORB6,HORBN5,HORB5,HORBN4
,HORB4,HORBN3,HORB3,HORBN2,HORB2,HORBN1,HORB1
,HORBN0,HORB0) = YLDG8 (DATAIN7,DATAIN6,DATAIN5,DATAIN4
,DATAIN3
,DATAIN2,DATAIN1,DATAIN0,WCRTC02) \$
RB138(HORBEN4,HORBE4,HORBEN3,HORBE3,HORBEN2,HORBE2,HORBEN1
,HORBE1,HORBEN0,HORBE0) = YLDG5 (DATAIN4,DATAIN3,DATAIN2
,DATAIN1
,DATAIN0,WCRTC03) \$
RB137(HORBE5,HORBEN5,HORBE6,HORBEN6,HORBE7,HORBEN7) =
LDG3 (WCRTC03
,DATAIN5,DATAIN6,DATAIN7) \$
CRTC04(HORRSN7,HORRS7,HORRSN6,HORRS6,HORRSN5,HORRS5,HORRSN4
,HORRS4,HORRSN3,HORRS3,HORRSN2,HORRS2,HORRSN1,HORRS1
,HORRSN0,HORRS0) = YLDG8 (DATAIN7,DATAIN6,DATAIN5
,DATAIN4,DATAIN3
,DATAIN2,DATAIN1,DATAIN0,WCRTC04) \$
CRTC07(,CRT07Q7,,CRT07Q6,,CRT07Q5,
,CRT07Q3,,CRT07Q2,,CRT07Q1,,CRT07Q0
) = YLDG7 (DATAIN7,DATAIN6,DATAIN5,DATAIN3,DATAIN2
,DATAIN1,DATAIN0
,WCRTC07) \$
RB149(,VERRE3,,VERRE2,,VERRE1,
,VERRE0) = YLDG4 (DATAIN3,DATAIN2,DATAIN1,DATAIN0,NT113) \$
RB147(PROT07,NPROT07) = YFD2 (DATAIN7,NT113,NRESET) \$
RB148(NVERINC,,NVERINE,NT52) = YFFD2 (NT112,NRESET,DATAIN4
,DATAIN5) \$
C4F11(CRT07Q4,) = LD2 (DATAIN4,WCRTC07A) \$
POS102(POS102Q0,) = YFD2 (DATAIN0,WTP0S102,NRESET) \$
C3D4(C3D4Q,,C3E3Q,) = YFD2SI (TXTSHIFT,C3E501) \$
C3G5(C3G5Q,,C3G7Q,) = YFD2SI (TXTSHIFT,C3F501) \$
A4D6(HCONT4I,,HCONT5I,,HCONT6I,,HCONT7I
,) = TCNT4 (B4A901,NCLRHC) \$
B4A16(HCONT0I,,HCONT1I,,HCONT2I,,HCONT3I
,HCNTN3) = TCNT4 (NCHRCLK,NCLRHC) \$
RB441(VBLKSP,NT103,NVERDE7,LCOMP,A4A9Q,STVERB,ENDVBLNK
,ENDVSYNC,STVERR,EQVTOT,ENDVERDE,B4G4Q,VERDE5,VERDE1
,VERDE0,VERDE4,VERDE7,VERDE3,VERDE2,VERDE6,VERBS5

```

, VERBS1, VERBS0, VERBS4, VERBS7, VERBS3, VERBS2, VERBS6
, VERT5, VERBE5, VERT1, VERBE1, VERT0, VERBE0, VERT4
, VERBE4, VERT7, VERBE7, VERT3, VERBE3, VERT2, VERBE2
, VERT6, VERBE6, LINEC5, VERRS5, LINEC1, VERRS1, LINEC0
, VERRS0, LINEC4, VERRS4, LINEC7, VERRS7, LINEC3, VERRS3
, LINEC2, VERRS2, LINEC6, VERRS6, VDSPLYEN, SCROFFQ, NT45
, D3C13QP, EVC0, EVC1, EVC2, EVC3, EVC4, EVC5
, EVC6, EVC7, EVC8, EVC9, VCNTRSET ) = VERTC2C ( EQLOWCLK, CRT07Q6
, CRT07Q1, VERTA0, VERTA1, VERTA2, VERTA3, VERTA4, VERTA5
, VERTA6, VERTA7, VERRSA0, VERRSA1, VERRSA2, VERRSA3, VERRSA4
, VERRSA5, VERRSA6, VERRSA7, VERREA0, VERREA1, VERREA2, VERREA3
, VERDEA0, VERDEA1, VERDEA2, VERDEA3, VERDEA4, VERDEA5, VERDEA6
, VERDEA7, CRT07QA0, CRT07QA1, CRT07QA2, CRT07QA5, CRT07QA6, CRT07QA7
, NRESET, LINEC9, VERBS9, DATAIN0, DATAIN1, DATAIN2, DATAIN3
, DATAIN7, DATAIN6, DATAIN4, DATAIN5, CRT07Q4, CRTRSB, CRT07Q3
, CHRESET, ONCEPERH, SCROFF, D4E501, WCRTC06, WCRTC18, WCRTC10
, WCRTC16, WCRTC12, WCRTC15, TEST1Z, VERCNT0, VERCNT1, VERCNT2
, VERCNT3, VERCNT4, VERCNT5, VERCNT6, VERCNT7, VERCNT8, VERCNT9
, CVC0, CVC1, CVC2, CVC3, CVC4, CVC5, CVC6
, CVC7, CVC8, CVC9 ) $
CRTM04( FHORRS0, FHORRS7, FHORRS6, FHORRS5, FHORRS4, FHORRS3, FHORRS2
, FHORRS1 ) = A2T1B8 ( VGAMOD, AHORRSN7, HORRSN7, AHORRSN6
, HORRSN6, AHORRSN5
, HORRSN5, AHORRSN4, HORRSN4, AHORRSN3, HORRSN3, AHORRSN2, HORRSN2
, AHORRSN1, HORRSN1, AHORRSN0, HORRSN0 ) $
CRTM05( FHORRE0, FHORRE7, FHORRE6, FHORRE5, FHORRE4, FHORRE3, FHORRE2
, FHORRE1 ) = A2T1B8 ( VGAMOD, AHORREN7, HORREN7, AHORREN6
, HORREN6, AHORREN5
, HORREN5, AHORREN4, HORREN4, AHORREN3, HORREN3, AHORREN2, HORREN2
, AHORREN1, HORREN1, AHORREN0, HORREN0 ) $
MUXLCM( NLCOMP ) = MUX21L ( LCOMPA, D3C13QP, AHORBE7 ) $
RB269( LCOMP ) = IV ( NLCOMP ) $
CRTM03( FHORBE0, FHORBE6I, FHORBE5I, FHORBE4, FHORBE3, FHORBE2, FHORBE1
) = A2T1B7 ( VGAMOD, AHORBEN6, HORBEN6, AHORBEN5, HORBEN5
, AHORBEN4, HORBEN4
, AHORBEN3, HORBEN3, AHORBEN2, HORBEN2, AHORBEN1, HORBEN1, AHORBEN0
, HORBEN0 ) $
CRTM01( FHORDI0, FHORDI7, FHORDI6, FHORDI5, FHORDI4, FHORDI3, FHORDI2
, FHORDI1 ) = A2T1B8 ( VGAMOD, AHORDIN7, HORDIN7, AHORDIN6
, HORDIN6, AHORDIN5
, HORDIN5, AHORDIN4, HORDIN4, AHORDIN3, HORDIN3, AHORDIN2, HORDIN2
, AHORDIN1, HORDIN1, AHORDIN0, HORDIN0 ) $
CRTM00( FHORT0, FHORT7, FHORT6, FHORT5, FHORT4, FHORT3, FHORT2
, FHORT1 ) = A2T1B8 ( VGAMOD, AHORTN7, HORTN7, AHORTN6, HORTN6
, AHORTN5
, HORTN5, AHORTN4, HORTN4, AHORTN3, HORTN3, AHORTN2, HORTN2
, AHORTN1, HORTN1, AHORTN0, HORTN0 ) $
CRTM02( FHORB0, FHORB7, FHORB6, FHORB5, FHORB4, FHORB3, FHORB2
, FHORB1 ) = A2T1B8 ( VGAMOD, AHORBN7, HORBN7, AHORBN6, HORBN6
, AHORBN5
, HORBN5, AHORBN4, HORBN4, AHORBN3, HORBN3, AHORBN2, HORBN2
, AHORBN1, HORBN1, AHORBN0, HORBN0 ) $
READEX( BCRR0, BCRR1, BCRR2, BCRR3, BCRR4, BCRR5, BCRR6
, BCRR7 ) = READ6 ( AHORB7, AHORB6, AHORB5, AHORB4, AHORB3, AHORB2
, AHORB1, AHORB0, AHORT7, AHORT6, AHORT5, AHORT4, AHORT3
, AHORT2, AHORT1, AHORT0, AHORDI7, AHORDI6, AHORDI5, AHORDI4
, AHORDI3, AHORDI2, AHORDI1, AHORDI0, AHORBE7, AHORBE6, AHORBE5
, AHORBE4, AHORBE3, AHORBE2, AHORBE1, AHORBE0, AHORRE7, AHORRE6
, AHORRE5, AHORRE4, AHORRE3, AHORRE2, AHORRE1, AHORRE0, AHORRS7
, AHORRS6, AHORRS5, AHORRS4, AHORRS3, AHORRS2, AHORRS1, AHORRS0
, BCR1CH, BCR1BH, BCR18H, BCR1DH, BCR1AH, BCR19H ) $
BCR19( AHORRSN7, AHORRS7, AHORRSN6, AHORRS6, AHORRSN5, AHORRS5, AHORRSN4

```



```

, AHORRS4, AHORRSN3, AHORRS3, AHORRSN2, AHORRS2, AHORRSN1, AHORRS1
, AHORRSN0, AHORRS0 ) = YLDG8 ( DATAIN7, DATAIN6, DATAIN5
, DATAIN4, DATAIN3
, DATAIN2, DATAIN1, DATAIN0, BCR19WZ ) $
BCR19W( BCR19WZ ) = ND2 ( BCR19H, WREXR ) $
RB73( BCR19H ) = NR2P ( BCRG0, BCROD ) $
BCR1AL( AHORREN4, AHORRE4, AHORREN3, AHORRE3, AHORREN2, AHORRE2, AHORREN1
, AHORRE1, AHORREN0, AHORRE0 ) = YLDG5 ( DATAIN4, DATAIN3
, DATAIN2, DATAIN1
, DATAIN0, BCR1AWZ ) $
RB65( AHORRE5, AHORREN5, AHORRE6, AHORREN6, AHORRE7, AHORREN7
) = LDG3 ( BCR1AWZ
, DATAIN5, DATAIN6, DATAIN7 ) $
BCR1AW( BCR1AWZ ) = ND2 ( BCR1AH, WREXR ) $
RB66( BCR1AH ) = NR2P ( BCRG1, BCREV ) $
BCR1DL( AHORBEN4, AHORBE4, AHORBEN3, AHORBE3, AHORBEN2, AHORBE2, AHORBEN1
, AHORBE1, AHORBEN0, AHORBE0 ) = YLDG5 ( DATAIN4, DATAIN3
, DATAIN2, DATAIN1
, DATAIN0, BCR1DWZ ) $
RB70( AHORBE5, AHORBEN5, AHORBE6, AHORBEN6 ) = LDG2 ( BCR1DWZ
, DATAIN5, DATAIN6
) $
RB69( AHORBE7, AHORBEN7 ) = LD4 ( DATAIN7, BCR1DWZ, NRESET ) $
BCR1DW( BCR1DWZ ) = ND2 ( BCR1DH, WREXR ) $
RB71( BCR1DH ) = NR2P ( BCRG2, BCROD ) $
BCR18( AHORDIN7, AHORDI7, AHORDIN6, AHORDI6, AHORDIN5, AHORDI5, AHORDIN4
, AHORDI4, AHORDIN3, AHORDI3, AHORDIN2, AHORDI2, AHORDIN1, AHORDI1
, AHORDIN0, AHORDI0 ) = YLDG8 ( DATAIN7, DATAIN6, DATAIN5
, DATAIN4, DATAIN3
, DATAIN2, DATAIN1, DATAIN0, BCR18WZ ) $
BCR18W( BCR18WZ ) = ND2 ( BCR18H, WREXR ) $
RB72( BCR18H ) = NR2P ( BCRG0, BCREV ) $
BCR1B( AHORTN7, AHORT7, AHORTN6, AHORT6, AHORTN5, AHORT5, AHORTN4
, AHORT4, AHORTN3, AHORT3, AHORTN2, AHORT2, AHORTN1, AHORT1
, AHORTN0, AHORT0 ) = YLDG8 ( DATAIN7, DATAIN6, DATAIN5
, DATAIN4, DATAIN3
, DATAIN2, DATAIN1, DATAIN0, BCR1BWZ ) $
BCR1BW( BCR1BWZ ) = ND2 ( BCR1BH, WREXR ) $
RB67( BCR1BH ) = NR2P ( BCRG1, BCROD ) $
BCR1C( AHORBN7, AHORB7, AHORBN6, AHORB6, AHORBN5, AHORB5, AHORBN4
, AHORB4, AHORBN3, AHORB3, AHORBN2, AHORB2, AHORBN1, AHORB1
, AHORBN0, AHORB0 ) = YLDG8 ( DATAIN7, DATAIN6, DATAIN5
, DATAIN4, DATAIN3
, DATAIN2, DATAIN1, DATAIN0, BCR1CWZ ) $
BCR1CW( BCR1CWZ ) = ND2 ( BCR1CH, WREXR ) $
RB68( BCR1CH ) = NR2P ( BCRG2, BCREV ) $
BCRG0S( BCRG0 ) = ND2 ( R3D6NQ1, R3D6NQ2 ) $
BCRG1S( BCRG1 ) = ND2 ( R3D6Q1, R3D6NQ2 ) $
BCRG2S( BCRG2 ) = ND2 ( R3D6NQ1, R3D6Q2 ) $
RB61( BCREV ) = ND2 ( R3D6HBI, BCREVSZ ) $
RB62( BCREVSZ ) = NR2 ( R3D6Q0, R3D6NQ3 ) $
RB63( BCROD ) = ND2 ( R3D6HBI, BCRODSZ ) $
RB64( BCRODSZ ) = NR2 ( R3D6NQ0, R3D6NQ3 ) $
RB344( R3D6HBI ) = NR4 ( R3D6Q7, R3D6Q6, R3D6Q5, R3D6NQ4 ) $
M0( M001 ) = AN2 ( M901, NT83 ) $
M1( M101 ) = EO ( M001, C3A1501 ) $
M2( M201 ) = OR2 ( STRCHM, C3A16NQ ) $
M3( M3Q, ) = YFD2 ( B4B1001, NCHRCLK, NRESET ) $
M4( M4Q, ) = YFD2 ( M3Q, NCHRCLK, NRESET ) $
M5( M5Q, AHC RN ) = FD2 ( M4Q, NCHRCLK, NRESET ) $
M6( M6Q, ) = YFD2 ( M5Q, NCHRCLK, NRESET ) $
M7( M7Q, M7QN ) = FJK2 ( M6Q, B5C501, NCHRCLK, NRESET ) $

```

```

M8( M801 ) = IV ( STRCHP ) $
M9( M901 ) = OR2 ( STRCHP,STRCHM ) $
M12( B4E4NQ ) = IV ( B4E4Q ) $
M13( M1301 ) = AN3 ( M101,HVCVDE,VPUN ) $
M15( ,M15QN ) = FD2 ( M7QN,NCHRCLK,NRESET ) $
M16( M16Z ) = MUX21HP ( EQHDESM,B4B1001,DSPTD2 ) $
M17( M17Z ) = MUX21HP ( EQHDEE,B5C501,DSPTD2 ) $
RB211( C3F901 ) = MUX21HP ( C3G1901,C3F901I,DSPTD2 ) $
RB212( C3E6Q ) = MUX21HP ( ULINE,C3E6QI,DSPTD2 ) $
RB224( FBFCRT8Z ) = AN2 ( NKILL3,NRESET ) $
RB206( NKILL1L, ) = FD4 ( NKILL1,ONCEPERH,NRESET ) $
RB207( NKILL1S ) = AN2 ( NKILL1,NKILL1L ) $
RB208( NKILL2 ) = MUX21HP ( NKILL1,NKILL1S,NT83 ) $
RB209( NKILL3 ) = OR2 ( NKILL2,VDELN ) $
RB213( FHORBE6 ) = MUX21HP ( HORBE6,FHORBE6I,DSPTD2 ) $
RB214( FHORBE5 ) = MUX21HP ( HORBE5,FHORBE5I,DSPTD2 ) $
RB215( HCONT0,HCONT1,HCONT2,HCONT3,HCONT4,HCONT5,HCONT6
,HCONT7 ) = SEL816 ( HCONT0I,HCONT1I,HCONT2I,HCONT3I
,HCONT4I,HCONT5I
,HCONT6I,HCONT7I,SSS,HCONT0I,HCONT1I,HCONT2I,HCONT3I
,HCONT4I,HCONT5I,HCONT6I,DCK2PNL ) $
RB216( DCK2PNLI ) = NR2 ( DSPTD2,DCK2DIVN ) $
RB210( ,DCK2PNL ) = B2I ( DCK2PNLI ) $
RB217( VPUN ) = IV ( VPU ) $
RB218( NT29 ) = OR2 ( B3G1001,BENDHORN ) $
RB219( ENDHOR ) = MUX21L ( NT29,BENDHORN,DSPTD2 ) $
RB220( ,NT30 ) = FD2 ( B3F7NQ,NCHRCLK,NRESET ) $
RB221( FB25Q, ) = FJK2 ( B4B1001,B5C501,NCHRCLK,NRESET ) $
RB222( FB26Z ) = OR2 ( B4B1001,FB25Q ) $
RB223( EQHDESM ) = AN2 ( FB26Z,EQHDES ) $
END : MODULE $
MODULE : CRTDC/// $
INPUTS :
R3D715Q1,R3D715Q2,R3D715Q3,IOEN2,IOWR2,DATAIN0,DATAIN1,DATAIN2
,DATAIN3,DATAIN4,DATAIN5,EIO3BD45,NRESET,IOCMDWR,NADDR00,WCRT0T7P
,CRT010X
$
OUTPUTS :
CRT18TF,CRT08TF,CRT20T7,CRT00T7,CRT10T7,CRTAQ0N,CRTAQ1N,CRTAQQ2
,CRTAQ2N,WCRTC01,WCRTC00,WCRTC07,WCRTC06,WCRTC03,WCRTC05,WCRTC04
,WCRTC02,WCRTC18,W3BD45,WCRT0T7,WCRTC07A,CRTAQQ4,CRTAQQ5,CRTAQ4N
,CRTAQQ3,WCRTC08,WCRTC0B,WCRTC0A,WCRTC0F,WCRTC10,WCRTC0D,WCRTC0C
,WCRTC0E,WCRTC16,NT113,NT112,NT111,NT110,WCRTC12,CRTAQ3,CRTAQ5
,WCRTC14,NT115,NT114,WCRTC15,WCRTC13,CRTC10,CRTC11
$
DESCRIPTION : MODULE FOR CRTDC $
LEVEL : FUNCTION $
USE :
IV /// MASTER
,ND2 /// MASTER
,ND4 /// MASTER
,LDG6R ///
,D24L /// MASTER
,IVP /// MASTER
,NR4 /// MASTER
,OR3 /// MASTER
,ND3 /// MASTER
,B2IP /// MASTER
,OR2 /// MASTER
,ND5 /// MASTER
,NR5 /// MASTER

```

\$

DEFINE :

```
D4H19N( CRTAQQ2N ) = IV ( CRTAQ2 ) $
D4H19( WCRT10T3 ) = ND2 ( CRTAQQ2N,WCRT10T7 ) $
D4E11( WCRT8TB ) = ND2 ( CRTAQQ2N,WCRT8TF ) $
D4A13( WCRT0T3P ) = ND2 ( CRTAQQ2N,WCRT0T7P ) $
D4G9N( WCRT8TF ) = IV ( D4G901N ) $
D4G9( D4G901N ) = ND4 ( W3BD45,CRTAQ4N,CRTAQ3,CRTAQ5N ) $
D4F17N( WCRT10T7 ) = IV ( WCR10T7N ) $
D4F17( WCR10T7N ) = ND4 ( W3BD45,CRTAQ3N,CRTAQ5N,CRTAQ4 ) $
D4F15N( WCRT0T7 ) = IV ( D4F1501N ) $
D4F15( D4F1501N ) = ND4 ( W3BD45,CRTAQ4N,CRTAQ5N,CRTAQ3N ) $
RB133( CRTAQ0,CRTAQ0N,CRTAQ1,CRTAQ1N,CRTAQ2,CRTAQ2N,CRTAQ3
,CRTAQ3N,CRTAQ4,CRTAQ4N,CRTAQ5,CRTAQ5N ) = LDG6R ( NRESET,NT109
,DATAIN0,DATAIN1,DATAIN2,DATAIN3,DATAIN4,DATAIN5 ) $
C4G12( CAXXXX00,CAXXXX01,CAXXXX10,CAXXXX11 ) = D24L ( CRTAQ0
,CRTAQ1 ) $
E4B9( CRTAQQ0N ) = IVP ( CRTAQ0 ) $
E4B7( CRTC11 ) = NR4 ( CRTAQ2,CRT010X,CRTAQQ0N,CRTAQ1 ) $
E4A7( CRTC10 ) = NR4 ( CRTAQ2,CRTAQ1,CRT010X,CRTAQ0 ) $
D5D5( WCRTC13 ) = OR3 ( CAXXXX11,WCRT10T3,R3D715Q2 ) $
D5D2( WCRTC15 ) = OR3 ( CAXXXX01,WCRT14T7,R3D715Q3 ) $
D5D3A( NT115 ) = OR3 ( WCRT14T7,CAXXXX11,R3D715Q3 ) $
D5D3( NT114 ) = OR3 ( WCRT14T7,CAXXXX11,R3D715Q2 ) $
D5D1( WCRTC14 ) = OR3 ( WCRT14T7,CAXXXX00,R3D715Q2 ) $
D4H11( B4C160 ) = ND3 ( CRTAQQ5N,CRTAQQ3N,CRTAQQ4N ) $
D4H11A( ,CRT00T7 ) = B2IP ( B4C160 ) $
D4F16( WCRT18TF ) = ND4 ( W3BD45,CRTAQ4,CRTAQ3,CRTAQ5N ) $
D4F8( D5C90 ) = ND3 ( CRTAQQ3N,CRTAQQ4N,CRTAQQ5 ) $
D4F8A( ,CRT20T7 ) = B2IP ( D5C90 ) $
D4F7( B3G140 ) = ND3 ( CRTAQQ3,CRTAQQ4N,CRTAQQ5N ) $
D4F7A( ,CRT08TF ) = B2IP ( B3G140 ) $
D4E7( D4D110 ) = ND3 ( CRTAQQ5N,CRTAQQ4,CRTAQQ3 ) $
D4E7A( ,CRT18TF ) = B2IP ( D4D110 ) $
D4E6( D4B110 ) = ND3 ( CRTAQQ3N,CRTAQQ5N,CRTAQQ4 ) $
D4E6A( ,CRT10T7 ) = B2IP ( D4B110 ) $
D4D19( WCRTC12 ) = OR3 ( WCRT10T3,CAXXXX10,R3D715Q3 ) $
D4D13( NT111 ) = OR3 ( WCRT8TB,CAXXXX01,R3D715Q1 ) $
D4D13A( NT110 ) = OR3 ( WCRT8TB,CAXXXX01,R3D715Q3 ) $
D4C16A( NT112 ) = OR3 ( WCRT10T3,CAXXXX01,R3D715Q2 ) $
D4C16( NT113 ) = OR3 ( WCRT10T3,CAXXXX01,R3D715Q3 ) $
D4C13( WCRTC16 ) = OR3 ( CAXXXX10,WCRT14T7,R3D715Q3 ) $
D4D16( WCRTC0E ) = OR2 ( WCRTCTF,CAXXXX10 ) $
D4D15( WCRTC0C ) = OR2 ( CAXXXX00,WCRTCTF ) $
D4D12( WCRTC0D ) = OR2 ( CAXXXX01,WCRTCTF ) $
D4C15( WCRTC10 ) = OR3 ( WCRT10T3,CAXXXX00,R3D715Q3 ) $
D4C11( WCRTC0F ) = OR2 ( CAXXXX11,WCRTCTF ) $
D4B15( WCRTC0A ) = OR3 ( WCRT8TB,CAXXXX10,R3D715Q1 ) $
D4B13( WCRTC0B ) = OR3 ( WCRT8TB,CAXXXX11,R3D715Q1 ) $
D4B14( WCRTC08 ) = OR3 ( CAXXXX00,WCRT8TB,R3D715Q2 ) $
D4H9( CRTAQQ3N ) = IVP ( CRTAQQ3 ) $
D4H8( CRTAQQ5N ) = IVP ( CRTAQQ5 ) $
D4D8( CRTAQQ2 ) = IVP ( CRTAQ2N ) $
D4F14( CRTAQQ3 ) = IVP ( CRTAQ3N ) $
D4F11( CRTAQQ4 ) = IVP ( CRTAQ4N ) $
D4F10( CRTAQQ5 ) = IVP ( CRTAQ5N ) $
D4F9( CRTAQQ4N ) = IVP ( CRTAQQ4 ) $
D4A14( WCRTC07A ) = ND5 ( WCRT0T7,CRTAQ2,CRTAQ0,CRTAQ1,OP28A9 ) $
D4D18( WCRT14T7 ) = ND2 ( CRTAQ2,WCRT10T7 ) $
D4C12( NT109 ) = ND2 ( OD1D11,NADDR00 ) $
D4C9( WCRTCTF ) = ND2 ( CRTAQ2,WCRT8TF ) $
D4A12( WCRT4T7P ) = ND2 ( CRTAQ2,WCRT0T7P ) $
```

```

D1D11( OD1D11 ) = IVP ( D1D1001 ) $
D1D10( D1D1001 ) = OR2 ( IOCMDWR,EI03BD45 ) $
C4G14( NT44 ) = NR5 ( WCRT18TF,CRTAQ0,CRTAQ1,R3D715Q2 ) $
C4G14A( WCRTC18 ) = IVP ( NT44 ) $
C4F9( WCRTC02 ) = OR2 ( WCRT0T3P,CAXXXX10 ) $
C4E11( WCRTC04 ) = OR2 ( WCRT4T7P,CAXXXX00 ) $
C4E9( WCRTC05 ) = OR2 ( CAXXXX01,WCRT4T7P ) $
C4G11( WCRTC03 ) = OR2 ( WCRT0T3P,CAXXXX11 ) $
C4F10( WCRTC06 ) = OR2 ( CAXXXX10,WCRT4T7P ) $
C4F8( WCRTC07 ) = OR2 ( WCRT4T7P,CAXXXX11 ) $
C4E10( WCRTC00 ) = OR2 ( CAXXXX00,WCRT0T3P ) $
C4E8( WCRTC01 ) = OR2 ( CAXXXX01,WCRT0T3P ) $
P28A6( OP28A6 ) = IVP ( IOEN2 ) $
P28A7( OP28A7 ) = OR3 ( EI03BD45,OP28A6,IOWR2 ) $
P28A8( W3BD45 ) = IVP ( OP28A7 ) $
P28A9( OP28A9 ) = IV ( R3D715Q2 ) $

END : MODULE $
MODULE : CLKGN/// $
INPUTS :
    XR05Q2,BLNKPNL,DSPTD2,NT74,R3D728Q1,NDSPEN,ATT30Q5,NRESET,BLANK5
    ,R3C2Q3,R3C2Q2,DCKN2DIV,DCK2DIVN,CC89SELN,NPRESET,CLK0I,CLK1I
    ,EXTOSC,D2G1401,D2F1201,SLEEPON
$
OUTPUTS :
    NCHRCLK,BLANKDE,PLNSHIFT,DCLK,M13CLK,D2H801,DOTCLK,D2H1401,TXTSHIFT
    ,D2F901,D2H13NQ,NCHARCLK,BLANK1,CLKXX
$
DESCRIPTION : MODULE FOR CLKGN $
LEVEL : FUNCTION $
USE :
    EN /// MASTER
    ,AN4 /// MASTER
    ,IV /// MASTER
    ,NR2 /// MASTER
    ,MUX21HP /// MASTER
    ,FD2P /// MASTER
    ,MUX21LP /// MASTER
    ,IVP /// MASTER
    ,AN2 /// MASTER
    ,AN2P /// MASTER
    ,YFD1 /// MASTER
    ,B4IP /// MASTER
    ,MUX41P /// MASTER
    ,NR3 /// MASTER
    ,MUX21L /// MASTER
    ,ND2 /// MASTER
    ,B1I /// MASTER
    ,ND3 /// MASTER
    ,B5I /// MASTER
    ,FT2P /// MASTER
    ,OR2 /// MASTER
    ,NR3P /// MASTER
    ,FT2 /// MASTER
    ,ND4 /// MASTER
    ,ND5RE ///
    ,YFD4SI ///
    ,EO /// MASTER
$
DEFINE :
    RB739( BLNKPNLD ) = EN ( BLNKPNL,NT74 ) $
    RB738( CXDLY1 ) = AN4 ( CLKXIN,CLKXIN,CLKXIN,CLKXIN ) $

```

```

RB737( D2H901 ) = IV ( D2H901I ) $
RB736( R3C2Q305 ) = NR2 ( R3C2Q3N,XR05Q2 ) $
RB735( R3C2Q3N ) = IV ( R3C2Q3 ) $
RB548( BLANKDE ) = MUX21HP ( BLNKPPLD,BLANKDEI,DSPTD2 ) $
RB546( NCHRCLKI, ) = FD2P ( D2H901I,NPNDCLK,NPRESET ) $
RB545( DOTCLKN ) = MUX21LP ( PNDCLK,C2F9NQ,ATT30Q5 ) $
RB544( CLKXIN2 ) = AN4 ( CXDLY1,CXDLY1,CXDLY1,CXDLY1 ) $
RB543( PNDCLK ) = IVP ( NPNDCLK ) $
RB542( CLK0I1 ) = AN2 ( SLMASKN,CLK0I ) $
RB541( CLK1I1 ) = AN2 ( SLMASKN,CLK1I ) $
RB540( EXTOSC1 ) = AN2 ( SLMASKN,EXTOSC ) $
RB539( REMASKN ) = AN2P ( SLMASKN,NRESET ) $
RB551( SLEEPOND, ) = YFD1 ( SLEEPON,CLKXI ) $
RB550( C2F9NQ ) = IVP ( C2F9Q ) $
RB549( DOTCLK ) = B4IP ( DOTCLKN ) $
RB547( NCHRCLK ) = B4IP ( NCHRCLKI ) $
RB538( TXTSHIFT ) = B4IP ( NTXSHIFT ) $
RB76( ,BLKDED ) = YFD1 ( BLKDE,M13CLK ) $
BMUXA( CLKXI ) = MUX41P ( CLK0I,CLK1I,EXTOSC,NRESET,SEL,R3C2Q305
) $
BMUXB( NPNDCLK ) = MUX41P ( E2B6Q,EXTOSC1,CLK1I1,CLK0I1,SEL0,SEL1
) $
BSEL( SEL ) = NR3 ( R3C2Q2N,R3C2Q305,XR05Q2 ) $
B3C2QN( R3C2Q2N ) = IV ( R3C2Q2 ) $
BSEL0( SEL0 ) = NR2 ( SEL,DCKN2DIV ) $
BSEL1( SEL1 ) = NR2 ( R3C2Q305,DCKN2DIV ) $
BMUXC( DOTCLKI ) = MUX21L ( NPNDCLK,C2F9Q,ATT30Q5 ) $
C2D15N( C2D1501N ) = IV ( BLANK2 ) $
C2D15( C2D1501 ) = ND2 ( C2D1501N,BLANK1 ) $
E2B9N( D2H801 ) = B1I ( CLKXF ) $
D2G122( D2G12012 ) = ND3 ( D2H13NQ,D2H12Q,DCKN2DIV ) $
D2G121( D2G12011 ) = ND3 ( DCK2DIVN,E2A12Q,NCHARCLK ) $
D2G12( D2G1201 ) = ND2 ( D2G12011,D2G12012 ) $
C2G13N( M13CLK ) = B5I ( DOTCLKI ) $
RB174( DCLK ) = B4IP ( PNDCLK ) $
B1E2( BLANKDEI, ) = YFD1 ( BLKDED,M13CLK ) $
C2F9( C2F9Q, ) = FT2P ( PNDCLK,C2D1501 ) $
D2B11( NCHARCLK ) = B4IP ( CHARCLK ) $
D2H14( D2H1401 ) = OR2 ( D2G1401,DCKN2DIV ) $
D2F6( NTXSHIFT ) = NR3P ( D2H12Q,CHARCLK,D2G10Q ) $
D2G9( D2G901 ) = AN2 ( CC89SELN,NPRESET ) $
D2H9( D2H901I ) = ND2 ( D2G10NQ,D2H12NQ ) $
D2G10( D2G10Q,D2G10NQ ) = FD2P ( D2H12Q,NPNDCLK,D2G901 ) $
D2H12( D2H12Q,D2H12NQ ) = FD2P ( D2H13Q,NPNDCLK,NPRESET ) $
D2H13( D2H13Q,D2H13NQ ) = FD2P ( E2A12Q,NPNDCLK,NPRESET ) $
D2F11( ,D2F11NQ ) = FT2 ( D2G13Q,D2F1201 ) $
D2G13( D2G13Q,D2G13NQ ) = FT2 ( D2H13Q,D2G1401 ) $
D2F9( D2F901 ) = ND4 ( D2G1201,D2H1401,D2G13NQ,D2F11NQ ) $
D2F7( PLNSHIFT ) = ND5RE ( D2G13NQ,D2H12NQ,NCHARCLK,D2G10NQ
,D2F11NQ ) $
E2A11( CHARCLK, ) = FD2P ( D2H901,NPNDCLK,NPRESET ) $
E2A12( E2A12Q, ) = FD2P ( CHARCLK,NPNDCLK,NPRESET ) $
E2B6( E2B6Q, ) = FT2P ( CLKXI,REMASKN ) $
C2D19( ,,,BLANK2,,BLANK1
, ) = YFD4SI ( DCLK,BLANK5 ) $
RB80( BLKDE ) = EO ( BLKMUX,NT74 ) $
RB81( BLKMUX ) = MUX21L ( BLANK1,NDSPEN,R3D728Q1 ) $
RB202( ,SLMASKN ) = YFD1 ( SLEEPOND,CLKXIN ) $
RB203( CLKXIN ) = IV ( CLKXI ) $
RB204( CLKXF ) = AN2P ( SLMASKN,CLKXI ) $
RB205( CLKXX ) = IVP ( CLKXIN2 ) $

```

END : MODULE \$

MODULE : BLCKD/// \$

INPUTS :

XR04Q3, SLEEPEN, REFINCSL, DCK2DIV, TEXT, R3D708Q0, NT61, R3D709Q0, NT62
, CC89SELN, F2D401, SEQ2QN3, F2D601, SEQ2QN1, F2D501, SEQ2QN2, F2C901
, SEQ2QN0, WRSEQ00, WTRSEQ01, SEQ3Q5, SEQ3Q4, NSEQ1, E2G701, D2F10NQ, NT38
, NT39, GC06Q0, NRFAMX, B3G701, D2H801, D2H1401, NT45, SCROFFQ, VDSPLYEN
, TXTSHIFT, C2C2201, C3D701, C3A701, C2B1801, DATAIN5, DATAIN4, DATAIN3
, DATAIN2, DATAIN1, DATAIN0, NRESET, CCC, HERTEX, CHAN, GCAD2, NT28, NT27
, GCRTIPE, ATT02Q2, ATT02QN1, F1B1501, ADDR01, CLKXX

\$

OUTPUTS :

IOC11, IOC10, IOC01, IOC00, SHIFT4, SAIFT2Z, OCC89SEL, SLEEPON, ODCK2DIV
, D2D701, SCROFF, D2F1201, D2G1401, NPRESET, DCK2DIVN, D2D12NQ, D2E801
, NT48, D2D2NQ, BDOUT45, BDOUT44, NAMXCPU, NRAMWR, NVGARDY, E3F1201, D2E901
, SAIFT2, NAMXGR, NT85, E2G901, CC89SEL, NT84, E3A1401, NT9, ADMUXCPU
, DCKN2DIV
, NCAS, NRAS11, NRAS00, NRAS10, NRAS01, ERMDRVZ, ERMCONZ, SECBYTE, FCAS1
, FCAS3

\$

DESCRIPTION : MODULE FOR BLCKD \$

LEVEL : FUNCTION \$

USE :

OR2 /// MASTER
, AN2 /// MASTER
, MUX21H /// MASTER
, MUX21L /// MASTER
, FD3 /// MASTER
, NR2 /// MASTER
, ND2 /// MASTER
, NR2P /// MASTER
, FD2 /// MASTER
, YFD2 /// MASTER
, IVP /// MASTER
, ND3 /// MASTER
, FD4 /// MASTER
, OR2P /// MASTER
, FJK2 /// MASTER
, ND2P /// MASTER
, AN3 /// MASTER
, FT2 /// MASTER
, ND4 /// MASTER
, AN2P /// MASTER
, A06P /// MASTER
, AN4P /// MASTER
, A07 /// MASTER
, B4I /// MASTER
, LDG5 ///
, YFFD2 ///
, A02 /// MASTER
, IV /// MASTER
, MACC16 ///

\$

DEFINE :

RB747(EXTTIM) = OR2 (D2E11AQ, D2E11BQ) \$
RB746(CASTIM) = AN2 (CASGO, D2C501) \$
RB745(RAMCAS) = MUX21H (CASTIM, D2D301, XR04Q3) \$
RB744(RAMWR) = MUX21H (D2D301, CASTIM, XR04Q3) \$
RB743(IOC11) = MUX21L (NRAMWR, NRAS11, XR04Q3) \$
RB742(IOC10) = MUX21L (NRAMWR, NRAS10, XR04Q3) \$
RB741(IOC01) = MUX21L (NRAMWR, NRAS01, XR04Q3) \$
RB740(IOC00) = MUX21L (NRAMWR, NRAS00, XR04Q3) \$

SLEEP3(S3Q,) = FD3 (SLEEPEN,REFINCSL,NRESET,CCC) \$
 SLEEP4(S4Z) = NR2 (SLEEPEN,S3Q) \$
 SLEEP5(S5Z) = ND2 (NT85,S4Z) \$
 SLEEP6(SLEEPON) = NR2P (E2B2NQ,S4Z) \$
 C2E12(C2E1201) = OR2 (GC06Q0,TEXT) \$
 C3E7(C3E701) = OR2 (SCROFFQ,B3G701) \$
 D1C10(,D1C10NQ) = FD2 (D1E13Q,D2E11NQ,NT107) \$
 D1D13(D1D13Q,) = YFD2 (D2C10NQ,D2H801,NPRESET) \$
 D1E13(D1E13Q,D1E13NQ) = YFD2 (CCC,D2C201,NT107) \$
 D1F14(D1F14Q,) = YFD2 (NT107,D2E101,D1F1301) \$
 D1F13(D1F1301) = AN2 (D1E13NQ,NRESET) \$
 D2C3(D2C301) = IVP (NT39) \$
 D2D6(NRAMWR) = IVP (RAMWR) \$
 D2D17(D2D1701) = IVP (C3E701) \$
 D2B5(NT36) = AN2 (D2B4Q,NPRESET) \$
 D2G5(D2G501) = NR2 (D2H7NQ,D2E6NQ) \$
 D2G14(D2G1401) = AN2 (C3D701,D2H1501) \$
 D2A10(D2A1001) = NR2 (TXTSHIFT,C3A701) \$
 D2D14(D2D1401) = OR2 (NT36,NT45) \$
 D2C2(D2C201) = ND3 (D2D5Q,D2D2Q,RASGO) \$
 D2F3(NMCNT6) = ND3 (D2H6Q,D2E6NQ,D2H7Q) \$
 D2F4(NMCNT5) = ND3 (D2E6Q,D2H6Q,D2H7NQ) \$
 D2B4(D2B4Q,) = FD4 (D2B601,D2H801,NPRESET) \$
 D2C10(,D2C10NQ) = FD4 (D2C1501,D2C9Q,D2D1401) \$
 D2D12(,D2D12NQ) = FD4 (D2C1201,D2E11NQ,D2D1401) \$
 D2B6(D2B601) = OR2 (MEMORYGO,RASGO) \$
 D2C12(D2C1201) = OR2 (D2C1101,C2B1801) \$
 D2D8(D2E901) = OR2P (E3F1201,RASGO) \$
 D2E8(D2E801) = OR2 (MCNTCLK,D2C8NQ) \$
 D2H15(D2H1501) = OR2 (SAIFT2Z,SHIFT4) \$
 D2B8(D2B8Q,D2B8NQ) = FJK2 (D2A1001,C3A701,D2H801,NPRESET) \$
 D2A8(D2A801) = AN2 (D2B601,D2C9NQ) \$
 D2E1(D2E101) = AN2 (MCNTCLK,D2C10NQ) \$
 D2F12(D2F1201) = AN2 (C3D701,SHIFT4) \$
 D2B9(NCAS) = ND2 (D2C501,RASGO) \$
 D2C5(D2C501) = ND2P (D2D5NQ,D2D2Q) \$
 D2C7(NAMXCPU) = ND2 (D2C10NQ,D1F14Q) \$
 D2D3(D2D301) = AN3 (D2C6Q,D2D2Q,D2C301) \$
 D2C6(D2C6Q,) = YFD2 (D1F14Q,RASGO,NRESET) \$
 D2C8(NT48,D2C8NQ) = YFD2 (RASGO,D2H801,NPRESET) \$
 D2C9(D2C9NQ,D2C9Q) = FD4 (D2E1001,D2H801,NPRESET) \$
 D2D1(D2D1Q,) = YFD2 (D1D13Q,D2H801,NPRESET) \$
 D2D2(D2D2Q,D2D2NQ) = FD2 (D2D1Q,D2H801,NPRESET) \$
 D2D5(D2D5Q,D2D5NQ) = YFD2 (D1F14Q,D2E11NQ,NRESET) \$
 D2E6(D2E6Q,D2E6NQ) = FT2 (MCNTCLK,NT36) \$
 D2E7(RASGO,MCNTCLK) = FD2 (D2A801,D2H801,NPRESET) \$
 D2E11(CASGO,D2E11NQ) = FD2 (NT48,D2H801,NPRESET) \$
 D2E11A(D2E11AQ,) = YFD2 (D2C401,D2H801,NPRESET) \$
 D2E11B(D2E11BQ,) = YFD2 (D2E11AQ,D2H801,NPRESET) \$
 D2H6(D2H6Q,) = FJK2 (D2G501,D2G501,MCNTCLK,NT36) \$
 D2H7(D2H7Q,D2H7NQ) = FJK2 (D2E6Q,D2E6Q,MCNTCLK,NT36) \$
 D2C15A(D2C15AZ) = ND3 (D2E1301,VDSPLYEN,D2D1701) \$
 D2C15B(D2C15BZ) = ND3 (C2C2201,C3E701,D2E1301) \$
 D2C15C(D2C1501) = ND2 (D2C15AZ,D2C15BZ) \$
 D2D7(D2D701) = ND4 (D2D5Q,NT39,NT48,D2D2Q) \$
 D2D10(E3F1201) = AN2P (D2C501,NT48) \$
 D2C4(D2C401) = AN3 (D2C301,D2D5Q,D2D1Q) \$
 D2C11(D2C1101) = A06P (D2H1401,D2C10NQ,D2D1301) \$
 D2D13(D2D1301) = A06P (VDSPLYEN,D2D1701,C2C2201) \$
 D3B8(NAMXGR) = AN4P (NAMXCPU,NRFAMX,C2E1201,SLEEPONN) \$
 E2A2(E2A201) = IVP (E2D201) \$
 E2A3(E2A301) = IVP (E2A201) \$

```

E2A4( E2A401 ) = IVP ( E2A301 ) $
E2A5( E2A501 ) = IVP ( E2A401 ) $
E2E9( E2E901 ) = IVP ( E2G701 ) $
E2E10( E2E1001 ) = IVP ( NSEQ1 ) $
E2B1( E2B1Q, ) = FD4 ( E2C1Q,CLKXX,NRESET ) $
E2B2( ,E2B2NQ ) = FD3 ( CCC,D2E11NQ,E2B1Q,NRESET ) $
E2C1( E2C1Q, ) = FD4 ( S5Z,CLKXX,NRESET ) $
E2D4( E2D4Q, ) = FD4 ( SEQARSTN,D2H801,NRESET ) $
E2C3( E2G901 ) = ND2P ( E2D4Q,E2C2NQ ) $
E2D2( E2D201 ) = ND2 ( E2B2NQ,E2C2NQ ) $
F2C10( NRAS10 ) = ND2 ( F2D801,RAMCAS ) $
F2C12( NRAS00 ) = ND2 ( F2C1101,RAMCAS ) $
F2E13( NRAS11 ) = ND2 ( F2E1101,RAMCAS ) $
F2E14( NRAS01 ) = ND2 ( F2E901,RAMCAS ) $
F2C11( F2C1101 ) = A07 ( SEQ2QN0,F2C901,EXTTIM ) $
F2D8( F2D801 ) = A07 ( SEQ2QN2,F2D501,EXTTIM ) $
F2E9( F2E901 ) = A07 ( SEQ2QN1,F2D601,EXTTIM ) $
F2E11( F2E1101 ) = A07 ( SEQ2QN3,F2D401,EXTTIM ) $
E2A7( NPRESET ) = B4I ( E2A501 ) $
E3A14( E3A1401 ) = IVP ( E3F1201 ) $
E3B13( NT9 ) = IVP ( NAMXGR ) $
F3D13( ADMUXCPU ) = IVP ( NAMXCPU ) $
E2C2( ,E2C2NQ ) = YFD2 ( E2D4Q,D2H801,NRESET ) $
RB376( CC89SEL,E2D80NQ,SAIFT2,,ODCK2DIV,,SHIFT4
,,SCROFF, ) = LDG5 ( WTRSEQ01,DATAIN0,DATAIN2,DATAIN3
,DATAIN4,DATAIN5 ) $
RB375( NT84,SEQARSTN,NT85,SEQSRSTN ) = YFFD2 ( WRSEQ00
,NRESET,DATAIN0
,DATAIN1 ) $
D2B7( NT37 ) = A02 ( D2B8Q,CCC,D2B8NQ,C3A701 ) $
D2B7N( MEMORYGO ) = IV ( NT37 ) $
D2E10( D2E1001 ) = A02 ( CASGO,D2H1001,D2C9Q,NT48 ) $
D2H10( D2H1001N ) = A02 ( D2C9NQ,CCC,CC89SELN,NMCNT6 ) $
D2H10N( D2H1001 ) = IV ( D2H1001N ) $
E2D11( E2D1101N ) = A02 ( E2E901,SEQ3Q4,SHIFT4,E2E1001 ) $
E2D11N( BDOUT44 ) = IV ( E2D1101N ) $
E2E12( E2E1201N ) = A02 ( E2E901,SEQ3Q5,E2E1001,SCROFF ) $
E2E12N( BDOUT45 ) = IV ( E2E1201N ) $
D2E13( D2E1301N ) = MUX21L ( NMCNT5,D2F10NQ,D2H1401 ) $
D2E13N( D2E1301 ) = IV ( D2E1301N ) $
ERMDV( ERMDRVZ ) = A07 ( D2D5Q,R3D708Q0,NT62 ) $
ERMCON( ERMCONZ ) = ND2 ( NT61,R3D709Q0 ) $
RB251( OCC89SEL ) = NR2 ( E2D80NQ,HERTEX ) $
CGASF2( SAIIFT2Z ) = OR2 ( SAIIFT2,CHAN ) $
CGADV2( DCK2DIVN ) = NR2 ( DCK2DIV,GCAD2 ) $
CGADV3( DCKN2DIV ) = IVP ( DCK2DIVN ) $
RB278( SECBYTE,NRMEMAC,HLDRDY,FCAS1,FCAS3 ) = MACC16 (
D1C10NQ,D2H801
,NPRESET,NT28,NT27,GCRTIPE,F1B1501,ATT02Q2,ATT02QN1
,ADDR01 ) $
D2C1( D2C1Z ) = ND2 ( NT38,NT39 ) $
D1C9( NVGARDY ) = ND2 ( MACC16AZ,D2C1Z ) $
RB280( NT107 ) = AN2 ( D2C1Z,NRMEMAC ) $
RB279( MACC16AZ ) = OR2 ( D1C10NQ,HLDRDY ) $
RB199( SLEEPONN ) = IV ( SLEEPON ) $
END : MODULE $
MODULE : BLCKC/// $
INPUTS :
DATAIN8,CCC,DATAIN9,DATAIN10,DATAIN11,DATAIN12,DATAIN13,DATAIN14
,DATAIN15,M0DI0,M0DI1,M0DI2,M0DI3,M0DI4,M0DI5,M0DI6,M0DI7,M1DI0
,M1DI1,M1DI2,M1DI3,M1DI4,M1DI5,M1DI6,M1DI7,M2DI0,M2DI1,M2DI2,M2DI3
,M2DI4,M2DI5,M2DI6,M2DI7,M3DI0,M3DI1,M3DI2,M3DI3,M3DI4,M3DI5,M3DI6

```


,M3DI7,D2D701,C3D501,WTRGC08,WTRGC05,WTRGC03,WTRGC00,WTRGC02,WTRGC01
,WTRGC07,WTRGC04,DATAIN7,DATAIN6,C3G8Q,TESTEZ,TEST2Z,ADR0,NJADD0
,NRESET,DATAIN0,DATAIN1,DATAIN2,DATAIN3,DATAIN4,DATAIN5,NCRTLTH
,ATT02QN2,ATT02Q2,ADR1

\$

OUTPUTS :

E2E13Q,E2E13NQ,NT51,E3H10Q,F3E12Q,E3E12Q,F4E2Q,D4H1Q,D3H16Q,E3G7Q
,D3E15Q,E3D1701,GC256L,GCSHLD,CRTP0D1,CRTP3D1,CRTP0D3,CRTP0D2
,CRTP0D0,CRTP0D6,CRTP0D4,CRTP1D3,CRTP3D3,CRTP3D2,CRTP3D0,CRTP2D2
,CRTP2D0,CRTP1D1,CRTP1D5,CRTP1D7,CRTP1D0,CRTP0D7,CRTP1D2,CRTP0D5
,CRTP1D4,CRTP1D6,CRTP3D7,CRTP3D4,CRTP3D6,CRTP3D5,CRTP2D4,CRTP2D7
,CRTP2D6,CRTP2D3,CRTP2D5,CRTP2D1,MRDATA7,GC07Q3,GC07Q2,GC07Q1
,GC07Q0,GCCCR3,GCCCR1,GCCCR0,GCCCR2,GCRTIPE,MRDATA3,MRDATA1,MRDATA0
,MRDATA2,MRDATA5,MRDATA6,MRDATA4,GCRM1,GCRM0,GCSETE3,GCSETE2,GCSETE1
,GCSETE0,GCSETR3,GCSETR2,GCSETR1,GCSETR0,GC03Q4,GC03Q3,GC03Q2
,GC03Q1,GC03Q0,GCEVOD,GCWTMOD1,GCWTMOD0,MASKR7,MASKR6,MASKR5,MASKR4
,MASKR3,MASKR2,MASKR1,MASKR0,D2B1601,CPULTH,BAROUT07,BAROUT06
,BAROUT01,ENACP3,ENACP0,BAROUT04,BAROUT03,BAROUT02,BAROUT05,ENACP1
,PLACL1,PLACL0,BAROUT00,ENACP2,PLACL2,PLACL3,M0D00,M0D01,M0D02
,M0D03,M0D04,M0D05,M0D06,M0D07,M1D00,M1D01,M1D02,M1D03,M1D04,M1D05
,M1D06,M1D07,M2D00,M2D01,M2D02,M2D03,M2D04,M2D05,M2D06,M2D07,M3D00
,M3D01,M3D02,M3D03,M3D04,M3D05,M3D06,CRTLTH,M3D07

\$

DESCRIPTION : MODULE FOR BLCKC \$

LEVEL : FUNCTION \$

USE :

B2I /// MASTER
,CCMP1 ///
,LDG2 ///
,LDG4 ///
,LDG5 ///
,B4I /// MASTER
,LDG6 ///
,LDG8 ///
,YFD2 /// MASTER
,IVP /// MASTER
,LD2 /// MASTER
,AN3 /// MASTER
,EO /// MASTER
,EN /// MASTER
,B5I /// MASTER
,B5IP /// MASTER
,A02P /// MASTER
,AN2 /// MASTER
,MEMIO3 ///
,BRSHFT ///
,ND2P /// MASTER
,ND2 /// MASTER
,A03 /// MASTER
,A02 /// MASTER
,IV /// MASTER
,NR2P /// MASTER
,MUX21LP /// MASTER
,A07P /// MASTER
,ND3 /// MASTER

\$

DEFINE :

RB385(,GC03Q2) = B2I (GC03Q2I) \$
RB384(,GC03Q1) = B2I (GC03Q1I) \$
B2D7(MRDATA7) = CCMP1 (SD0N,CPUP0D7N,CCD0,CPUP0D7,SD1N,CPUP1D7N
,CCD1,CPUP1D7,SD2N,CPUP2D7N,CCD2,CPUP2D7,SD3N

```

,CPUP3D7N,CCD3,CPUP3D7 ) $
A2E3( MRDATA3 ) = CCMP1 ( SD0N,CPUP0D3N,CCD0,CPUP0D3,SD1N,CPUP1D3N
,CCD1,CPUP1D3,SD2N,CPUP2D3N,CCD2,CPUP2D3,SD3N
,CPUP3D3N,CCD3,CPUP3D3 ) $
B2F8( MRDATA1 ) = CCMP1 ( SD0N,CPUP0D1N,CCD0,CPUP0D1,SD1N,CPUP1D1N
,CCD1,CPUP1D1,SD2N,CPUP2D1N,CCD2,CPUP2D1,SD3N
,CPUP3D1N,CCD3,CPUP3D1 ) $
B2D17( MRDATA0 ) = CCMP1 ( SD0N,CPUP0D0N,CCD0,CPUP0D0,SD1N
,CPUP1D0N
,CCD1,CPUP1D0,SD2N,CPUP2D0N,CCD2,CPUP2D0,SD3N
,CPUP3D0N,CCD3,CPUP3D0 ) $
B2F3( MRDATA2 ) = CCMP1 ( SD0N,CPUP0D2N,CCD0,CPUP0D2,SD1N,CPUP1D2N
,CCD1,CPUP1D2,SD2N,CPUP2D2N,CCD2,CPUP2D2,SD3N
,CPUP3D2N,CCD3,CPUP3D2 ) $
B2A4( MRDATA5 ) = CCMP1 ( SD0N,CPUP0D5N,CCD0,CPUP0D5,SD1N,CPUP1D5N
,CCD1,CPUP1D5,SD2N,CPUP2D5N,CCD2,CPUP2D5,SD3N
,CPUP3D5N,CCD3,CPUP3D5 ) $
B2D10( MRDATA6 ) = CCMP1 ( SD0N,CPUP0D6N,CCD0,CPUP0D6,SD1N
,CPUP1D6N
,CCD1,CPUP1D6,SD2N,CPUP2D6N,CCD2,CPUP2D6,SD3N
,CPUP3D6N,CCD3,CPUP3D6 ) $
B2C16( MRDATA4 ) = CCMP1 ( SD0N,CPUP0D4N,CCD0,CPUP0D4,SD1N
,CPUP1D4N
,CCD1,CPUP1D4,SD2N,CPUP2D4N,CCD2,CPUP2D4,SD3N
,CPUP3D4N,CCD3,CPUP3D4 ) $
GC04( GCRM0,,GCRM1, ) = LDG2 ( WTRGC04,DATAIN0,DATAIN1
) $
GC07( GC07Q0,,GC07Q1,,GC07Q2,,GC07Q3
, ) = LDG4 ( WTRGC07,DATAIN0,DATAIN1,DATAIN2,DATAIN3 ) $
GC01( GCSETE0,,GCSETE1,,GCSETE2,,GCSETE3
, ) = LDG4 ( WTRGC01,DATAIN0,DATAIN1,DATAIN2,DATAIN3 ) $
GC02( GCCCR0,GCCCR0N,GCCCR1,GCCCR1N,GCCCR2,GCCCR2N,GCCCR3
,GCCCR3N ) = LDG4 ( WTRGC02,DATAIN0,DATAIN1,DATAIN2,DATAIN3 ) $
GC00( GCSETR0,,GCSETR1,,GCSETR2,,GCSETR3
, ) = LDG4 ( WTRGC00,DATAIN0,DATAIN1,DATAIN2,DATAIN3 ) $
GC03( GC03Q0,,GC03Q1I,,GC03Q2I,,GC03Q3
,,GC03Q4,GC03NQ4 ) = LDG5 ( WTRGC03,DATAIN0,DATAIN1,DATAIN2
,DATAIN3,DATAIN4 ) $
RB370( SELXOR ) = B4I ( SELXORN ) $
RB368( SELAND ) = B4I ( SELANDN ) $
GC05( GCWTMOD0,NT33,GCWTMOD1,NT34,GCRTIPE,GCRTIPEN,GCEVOD
,GCEVODN,GCSHLD,,GC256L,GC256LN ) = LDG6 ( WTRGC05,DATAIN0
,DATAIN1,DATAIN3,DATAIN4,DATAIN5,DATAIN6 ) $
GC08( MASKR0,,MASKR1,,MASKR2,,MASKR3
,,MASKR4,,MASKR5,,MASKR6,
,MASKR7, ) = LDG8 ( WTRGC08,DATAIN0,DATAIN1,DATAIN2,DATAIN3
,DATAIN4,DATAIN5,DATAIN6,DATAIN7 ) $
B1C10( GC03Q4N ) = B4I ( GC03Q4 ) $
F4E2( F4E2Q, ) = YFD2 ( M0DI7,CRTLTH,NRESET ) $
F3E12( F3E12Q, ) = YFD2 ( M0DI3,CRTLTH,NRESET ) $
E3D16( E3D1601 ) = IVP ( D3H16Q ) $
E3H10( E3H10Q, ) = LD2 ( M0DI2,CRTLTH ) $
E3G7( E3G7Q, ) = LD2 ( M0DI1,CRTLTH ) $
E3E12( E3E12Q, ) = LD2 ( M0DI0,CRTLTH ) $
E3D17( E3D1701 ) = AN3 ( D3E15Q,F4E2Q,E3D1601 ) $
E2E13( E2E13Q,E2E13NQ ) = LD2 ( M1DI3,CRTLTH ) $
D4H1( D4H1Q, ) = YFD2 ( M0DI4,CRTLTH,NRESET ) $
D3E14( NT51 ) = E0 ( C3D501,TEST2Z ) $
D3H16( D3H16Q, ) = YFD2 ( M0DI5,CRTLTH,NRESET ) $
D3E15( D3E15Q, ) = YFD2 ( M0DI6,CRTLTH,NRESET ) $
D2D11( NCPULTH ) = EN ( D2D701,TESTEZ ) $
D2E12A( CPULTH ) = B5I ( NCPULTH ) $

```

D2E12(CRTLTH) = B5IP (NCRTLTH) \$
D2B16(D2B1601) = IVP (C3G8Q) \$
C2C9(C2C901) = A02P (GCEVODN,GCRM0,ADR0,GCEVOD) \$
B1F13(WMOD2) = AN2 (NT33,GCWTFMOD1) \$
B1F12(WMOD2N) = IVP (WMOD2) \$
E5I2(M0D01,CPUP0D1,CPUP0D1N,CRTP0D1) = MEMIO3 (BAROUT01
,ENACPN0,PLACL0
,ENACP0,SELAND,SELXOR,CCC,GC03Q4N,MASKD01,M0DI1
,CPULTH,CRTLTH) \$
C1H1(M3D01,CPUP3D1,CPUP3D1N,CRTP3D1) = MEMIO3 (BAROUT11
,ENACPN3,ENACP3
,PLACL3,SELAND,SELXOR,CCC,GC03Q4N,MASKD11,M3DI1
,CPULTH,CRTLTH) \$
F5F8(M0D03,CPUP0D3,CPUP0D3N,CRTP0D3) = MEMIO3 (BAROUT03
,ENACPN0,PLACL0
,ENACP0,SELAND,SELXOR,CCC,GC03Q4N,MASKD03,M0DI3
,CPULTH,CRTLTH) \$
F5F9(M0D02,CPUP0D2,CPUP0D2N,CRTP0D2) = MEMIO3 (BAROUT02
,ENACPN0,ENACP0
,PLACL0,SELAND,SELXOR,CCC,GC03Q4N,MASKD02,M0DI2
,CPULTH,CRTLTH) \$
E5I1(M0D00,CPUP0D0,CPUP0D0N,CRTP0D0) = MEMIO3 (BAROUT00
,ENACPN0,PLACL0
,ENACP0,SELAND,SELXOR,CCC,GC03Q4N,MASKD00,M0DI0
,CPULTH,CRTLTH) \$
E5I3(M0D06,CPUP0D6,CPUP0D6N,CRTP0D6) = MEMIO3 (BAROUT06
,ENACPN0,ENACP0
,PLACL0,SELAND,SELXOR,CCC,GC03Q4N,MASKD06,M0DI6
,CPULTH,CRTLTH) \$
E5I5(M0D04,CPUP0D4,CPUP0D4N,CRTP0D4) = MEMIO3 (BAROUT04
,ENACPN0,ENACP0
,PLACL0,SELAND,SELXOR,CCC,GC03Q4N,MASKD04,M0DI4
,CPULTH,CRTLTH) \$
D5I8(M1D03,CPUP1D3,CPUP1D3N,CRTP1D3) = MEMIO3 (BAROUT13
,ENACPN1,PLACL1
,ENACP1,SELAND,SELXOR,CCC,GC03Q4N,MASKD13,M1DI3
,CPULTH,CRTLTH) \$
D1I1(M3D03,CPUP3D3,CPUP3D3N,CRTP3D3) = MEMIO3 (BAROUT13
,ENACPN3,ENACP3
,PLACL3,SELAND,SELXOR,CCC,GC03Q4N,MASKD13,M3DI3
,CPULTH,CRTLTH) \$
C1H7(M3D02,CPUP3D2,CPUP3D2N,CRTP3D2) = MEMIO3 (BAROUT12
,ENACPN3,ENACP3
,PLACL3,SELAND,SELXOR,CCC,GC03Q4N,MASKD12,M3DI2
,CPULTH,CRTLTH) \$
C1H3(M3D00,CPUP3D0,CPUP3D0N,CRTP3D0) = MEMIO3 (BAROUT10
,ENACPN3,PLACL3
,ENACP3,SELAND,SELXOR,CCC,GC03Q4N,MASKD10,M3DI0
,CPULTH,CRTLTH) \$
C1H2(M2D02,CPUP2D2,CPUP2D2N,CRTP2D2) = MEMIO3 (BAROUT02
,ENACPN2,ENACP2
,PLACL2,SELAND,SELXOR,CCC,GC03Q4N,MASKD02,M2DI2
,CPULTH,CRTLTH) \$
F5F6(M2D00,CPUP2D0,CPUP2D0N,CRTP2D0) = MEMIO3 (BAROUT00
,ENACPN2,PLACL2
,ENACP2,SELAND,SELXOR,CCC,GC03Q4N,MASKD00,M2DI0
,CPULTH,CRTLTH) \$
A5F5(M1D01,CPUP1D1,CPUP1D1N,CRTP1D1) = MEMIO3 (BAROUT11
,ENACPN1,PLACL1
,ENACP1,SELAND,SELXOR,CCC,GC03Q4N,MASKD11,M1DI1
,CPULTH,CRTLTH) \$
A5F10(M1D05,CPUP1D5,CPUP1D5N,CRTP1D5) = MEMIO3 (BAROUT15

```

, ENACPN1, PLACL1
, ENACP1, SELAND, SELXOR, CCC, GC03Q4N, MASKD15, M1DI5
, CPULTH, CRTLTH ) $
A5F4( M1D07, CPUP1D7, CPUP1D7N, CRTP1D7 ) = MEMIO3 ( BAROUT17
, ENACPN1, ENACP1
, PLACL1, SELAND, SELXOR, CCC, GC03Q4N, MASKD17, M1DI7
, CPULTH, CRTLTH ) $
A5F9( M1D00, CPUP1D0, CPUP1D0N, CRTP1D0 ) = MEMIO3 ( BAROUT10
, ENACPN1, PLACL1
, ENACP1, SELAND, SELXOR, CCC, GC03Q4N, MASKD10, M1DI0
, CPULTH, CRTLTH ) $
F5F10( M0D07, CPUP0D7, CPUP0D7N, CRTP0D7 ) = MEMIO3 ( BAROUT07
, ENACPN0, ENACP0
, PLACL0, SELAND, SELXOR, CCC, GC03Q4N, MASKD07, M0DI7
, CPULTH, CRTLTH ) $
A4F5( M1D02, CPUP1D2, CPUP1D2N, CRTP1D2 ) = MEMIO3 ( BAROUT12
, ENACPN1, PLACL1
, ENACP1, SELAND, SELXOR, CCC, GC03Q4N, MASKD12, M1DI2
, CPULTH, CRTLTH ) $
F5F11( M0D05, CPUP0D5, CPUP0D5N, CRTP0D5 ) = MEMIO3 ( BAROUT05
, ENACPN0, PLACL0
, ENACP0, SELAND, SELXOR, CCC, GC03Q4N, MASKD05, M0DI5
, CPULTH, CRTLTH ) $
A5F2( M1D04, CPUP1D4, CPUP1D4N, CRTP1D4 ) = MEMIO3 ( BAROUT14
, ENACPN1, PLACL1
, ENACP1, SELAND, SELXOR, CCC, GC03Q4N, MASKD14, M1DI4
, CPULTH, CRTLTH ) $
A5F7( M1D06, CPUP1D6, CPUP1D6N, CRTP1D6 ) = MEMIO3 ( BAROUT16
, ENACPN1, ENACP1
, PLACL1, SELAND, SELXOR, CCC, GC03Q4N, MASKD16, M1DI6
, CPULTH, CRTLTH ) $
A3F1( M3D07, CPUP3D7, CPUP3D7N, CRTP3D7 ) = MEMIO3 ( BAROUT17
, ENACPN3, ENACP3
, PLACL3, SELAND, SELXOR, CCC, GC03Q4N, MASKD17, M3DI7
, CPULTH, CRTLTH ) $
A3F8( M3D04, CPUP3D4, CPUP3D4N, CRTP3D4 ) = MEMIO3 ( BAROUT14
, ENACPN3, PLACL3
, ENACP3, SELAND, SELXOR, CCC, GC03Q4N, MASKD14, M3DI4
, CPULTH, CRTLTH ) $
A3F3( M3D06, CPUP3D6, CPUP3D6N, CRTP3D6 ) = MEMIO3 ( BAROUT16
, ENACPN3, PLACL3
, ENACP3, SELAND, SELXOR, CCC, GC03Q4N, MASKD16, M3DI6
, CPULTH, CRTLTH ) $
A3F4( M3D05, CPUP3D5, CPUP3D5N, CRTP3D5 ) = MEMIO3 ( BAROUT15
, ENACPN3, PLACL3
, ENACP3, SELAND, SELXOR, CCC, GC03Q4N, MASKD15, M3DI5
, CPULTH, CRTLTH ) $
A2F3( M2D04, CPUP2D4, CPUP2D4N, CRTP2D4 ) = MEMIO3 ( BAROUT04
, ENACPN2, ENACP2
, PLACL2, SELAND, SELXOR, CCC, GC03Q4N, MASKD04, M2DI4
, CPULTH, CRTLTH ) $
A2F1( M2D07, CPUP2D7, CPUP2D7N, CRTP2D7 ) = MEMIO3 ( BAROUT07
, ENACPN2, ENACP2
, PLACL2, SELAND, SELXOR, CCC, GC03Q4N, MASKD07, M2DI7
, CPULTH, CRTLTH ) $
A1F4( M2D06, CPUP2D6, CPUP2D6N, CRTP2D6 ) = MEMIO3 ( BAROUT06
, ENACPN2, PLACL2
, ENACP2, SELAND, SELXOR, CCC, GC03Q4N, MASKD06, M2DI6
, CPULTH, CRTLTH ) $
B1H1( M2D03, CPUP2D3, CPUP2D3N, CRTP2D3 ) = MEMIO3 ( BAROUT03
, ENACPN2, PLACL2
, ENACP2, SELAND, SELXOR, CCC, GC03Q4N, MASKD03, M2DI3

```

```

,CPULTH,CRTLTH ) $
A1F3( M2D05,CPUP2D5,CPUP2D5N,CRTP2D5 ) = MEMIO3 ( BAROUT05
,ENACPN2,ENACP2
,PLACL2,SELAND,SELXOR,CCC,GC03Q4N,MASKD05,M2DI5
,CPULTH,CRTLTH ) $
A1F2( M2D01,CPUP2D1,CPUP2D1N,CRTP2D1 ) = MEMIO3 ( BAROUT01
,ENACPN2,PLACL2
,ENACP2,SELAND,SELXOR,CCC,GC03Q4N,MASKD01,M2DI1
,CPULTH,CRTLTH ) $
A1A3( BAROUT07,BAROUT06,BAROUT04,BAROUT05,BAROUT03,BAROUT01
,BAROUT02
,BAROUT00 ) = BRSHFT ( GC03Q0,GC03Q1,GC03Q2,DATAIN0
,DATAIN1,DATAIN2
,DATAIN3,DATAIN4,DATAIN5,DATAIN6,DATAIN7 ) $
A1A3A( BAROUT17,BAROUT16,BAROUT14,BAROUT15,BAROUT13,BAROUT11
,BAROUT12
,BAROUT10 ) = BRSHFT ( GC03Q0,GC03Q1,GC03Q2,DATAIN8
,DATAIN9,DATAIN10
,DATAIN11,DATAIN12,DATAIN13,DATAIN14,DATAIN15 ) $
RB452( WMOD1N ) = ND2P ( GCWTMOD0,NT34 ) $
RB371( SELXORN ) = ND2 ( GC03Q4,GC03Q3 ) $
RB88( MASKD10 ) = A03 ( NT33,BAROUT10,WMOD1N,MASKR0 ) $
B1E121( MASKD00 ) = A03 ( NT33,BAROUT00,WMOD1N,MASKR0 ) $
B2F2A1( MASKD12 ) = A03 ( NT33,BAROUT12,WMOD1N,MASKR2 ) $
B2F21( MASKD02 ) = A03 ( NT33,BAROUT02,WMOD1N,MASKR2 ) $
RB97( MASKD14 ) = A03 ( NT33,BAROUT14,WMOD1N,MASKR4 ) $
B2G111( MASKD04 ) = A03 ( NT33,BAROUT04,WMOD1N,MASKR4 ) $
RB169( MASKD17 ) = A03 ( NT33,BAROUT17,WMOD1N,MASKR7 ) $
C2A111( MASKD07 ) = A03 ( NT33,BAROUT07,WMOD1N,MASKR7 ) $
C2A9A1( MASKD16 ) = A03 ( NT33,BAROUT16,WMOD1N,MASKR6 ) $
C2A91( MASKD06 ) = A03 ( NT33,BAROUT06,WMOD1N,MASKR6 ) $
B2G7A1( MASKD13 ) = A03 ( NT33,BAROUT13,WMOD1N,MASKR3 ) $
B2G71( MASKD03 ) = A03 ( NT33,BAROUT03,WMOD1N,MASKR3 ) $
B2E5A1( MASKD15 ) = A03 ( NT33,BAROUT15,WMOD1N,MASKR5 ) $
B2E51( MASKD05 ) = A03 ( NT33,BAROUT05,WMOD1N,MASKR5 ) $
RB161( MASKD11 ) = A03 ( NT33,BAROUT11,WMOD1N,MASKR1 ) $
RB369( SELANDN ) = ND2 ( GC03NQ4,GC03Q3 ) $
C1A151( MASKD01 ) = A03 ( NT33,BAROUT01,WMOD1N,MASKR1 ) $
C2D5( CCMP51N ) = A02 ( ATT02QN2,GCRM1,ADR1,ATT02Q2 ) $
C2D5N( CCMP51 ) = IV ( CCMP51N ) $
B1G13( ENACPN0 ) = NR2P ( GCWTMOD1,GCSETE0 ) $
B1G13N( ENACP0 ) = IVP ( ENACPN0 ) $
B1F15( ENACPN1 ) = NR2P ( GCWTMOD1,GCSETE1 ) $
B1F15N( ENACP1 ) = IVP ( ENACPN1 ) $
C1A10( ENACPN3 ) = NR2P ( GCWTMOD1,GCSETE3 ) $
C1A10N( ENACP3 ) = IVP ( ENACPN3 ) $
B1F11( ENACPN2 ) = NR2P ( GCWTMOD1,GCSETE2 ) $
B1F11N( ENACP2 ) = IVP ( ENACPN2 ) $
B2E1( PLACL0N ) = A02 ( GCSETR0,WMOD2N,WMOD2,DATAIN0 ) $
B2E1N( PLACL0 ) = IVP ( PLACL0N ) $
B2F1( PLACL1N ) = A02 ( GCSETR1,WMOD2N,DATAIN1,WMOD2 ) $
B2F1N( PLACL1 ) = IVP ( PLACL1N ) $
B1E9( PLACL3N ) = A02 ( GCSETR3,WMOD2N,DATAIN3,WMOD2 ) $
B1E9N( PLACL3 ) = IVP ( PLACL3N ) $
B1F14( PLACL2N ) = A02 ( GCSETR2,WMOD2N,DATAIN2,WMOD2 ) $
B1F14N( PLACL2 ) = IVP ( PLACL2N ) $
RB116( CCMP50N ) = IV ( CCMP50 ) $
C2D12( CCMP50 ) = MUX21LP ( C2C901,NJADD0,ATT02Q2 ) $
RB367( SD3N ) = A07P ( CCE3N,GCCCR3N,CCS3 ) $
RB111( CCD3 ) = NR2P ( CCE3N,GCCCR3 ) $
RB115( CCE3N ) = ND2 ( GCRTIPE,GC07Q3 ) $
RB120( CCS3 ) = ND3 ( GCRTIPEN,CCMP50,CCMP51 ) $

```

```

RB366( SD2N ) = A07P ( CCE2N,GCCCR2N,CCS2 ) $
RB110( CCD2 ) = NR2P ( CCE2N,GCCCR2 ) $
RB114( CCE2N ) = ND2 ( GCRTIPE,GC07Q2 ) $
RB119( CCS2 ) = ND3 ( GCRTIPEN,CCMPS0N,CCMPS1 ) $
RB365( SD1N ) = A07P ( CCE1N,GCCCR1N,CCS1 ) $
RB109( CCD1 ) = NR2P ( CCE1N,GCCCR1 ) $
RB113( CCE1N ) = ND2 ( GCRTIPE,GC07Q1 ) $
RB118( CCS1 ) = ND3 ( GCRTIPEN,CCMPS0,CCMPS1N ) $
RB364( SD0N ) = A07P ( CCE0N,GCCCR0N,CCS0 ) $
RB108( CCD0 ) = NR2P ( CCE0N,GCCCR0 ) $
RB112( CCE0N ) = ND2 ( GCRTIPE,GC07Q0 ) $
RB117( CCS0 ) = ND3 ( GCRTIPEN,CCMPS0N,CCMPS1N ) $
END : MODULE $
MODULE : BLCKB/// $
INPUTS :
  NADDR16,MAK17,R3D704Q2,NT53,FCAS1,FCAS3,B3A1301,NJADD0,NRESET
,DATAIN0,DATAIN1,DATAIN2,DATAIN3,DATAIN4,DATAIN5,D3F1601,ADRCNT14
,ADRCNT11,ADRCNT10,ADRCNT09,ADRCNT08,ADRCNT01,ADRCNT04,ADRCNT03
,ADRCNT02,ADRCNT13,ADRCNT15,ADRCNT00,ADRCNT12,ADRCNT07,ADRCNT06
,ADRCNT05,NT49,NUNDER6,UNDER6,ROWCNT0,ROWCNT1,ROWCNT2,ROWCNT3
,ROWCNT4,CRTLTH,CRTCM5,CRTCM1,CRTCM0,NAMXCPU,CRTCM6,ADDR11,ADDR04
,E3F1201,D2E901,ADMUXCPU,NT9,E3A1401,D3E15Q,NAMXGR,ADDR13,ADDR06
,E3G7Q,ADDR10,ADDR03,D3H16Q,ADDR14,ADDR09,ADDR02,D4H1Q,ADDR12
,ADDR05,F4E2Q,E3E12Q,ADDR08,F3E12Q,F1B1001,ADDR07,E3H10Q,ADDR01
,GC06Q1,NADDR1,NT51,R3C2Q5,JADD0,E2G901,E2E13NQ,E2E13Q,WTRSEQ03
,TEST3Z,NCRTCM6,F1B701,ADDR16,WTRSEQ04,WTRSEQ02
$
OUTPUTS :
  ATT02QN1,F1B1501,ADR0,YB4,YA4,YB6,YA6,YB3,YA3,YB0,YA0,YB2,YA2
,YB5,YA5,YB1,YA1,YB7,YA7,ATT02QN2,ATT02Q2,ADR1,SEQ2Q1,SEQ3Q1,ATT02Q0
,SEQ3Q3,SEQ2Q3,SEQ3Q4,SEQ3Q5,F2C901,F2D401,F2D501,F2D601,SEQ3Q2
,ATT02Q1,SEQ2Q2,SEQ2Q0,SEQ3Q0,SEQ2QN0,SEQ2QN2,SEQ2QN1,SEQ2QN3
$
DESCRIPTION : MODULE FOR BLCKB $
LEVEL : FUNCTION $
USE :
  ND2 /// MASTER
,EN /// MASTER
,ND3 /// MASTER
,NR2 /// MASTER
,A04 /// MASTER
,IV /// MASTER
,MUX21L /// MASTER
,A02 /// MASTER
,TCNT4 ///
,YFFD6 ///
,LDG3 ///
,IVP /// MASTER
,LDG4 ///
,B4I /// MASTER
,OR2 /// MASTER
,YFD2 /// MASTER
,ND4 /// MASTER
,OR2P /// MASTER
,EO /// MASTER
,LD2 /// MASTER
,MUX168 ///
,ADMUX2 ///
$
DEFINE :

```

TGR2(TIGERM2) = ND2 (ADRCNT15,R3D704Q2) \$
TGR1(TIGERM1) = ND2 (ADRCNT14,R3D704Q2) \$
AM13(ADRCM13) = EN (ADRCNT13,TIGERM2) \$
AM12(ADRCM12) = EN (ADRCNT12,TIGERM1) \$
AM15(ADRM15) = EN (F1B1001,MAK17) \$
AM14(ADRM14) = EN (ADDR14,MAK16) \$
MK16(MAK16) = ND3 (MAK16A,MAK16B,R3D704Q2) \$
MK16B(MAK16B) = ND2 (NT53,F1A401) \$
MK16A(MAK16A) = ND2 (NADDR16,F1B701) \$
F4D62(F4D6012) = NR2 (ADRCNT05,NUNDER6) \$
F4D61(F4D6011) = A04 (ADRCNT07,E4F201,ADRCNT06,F4E501) \$
F4D6(F4D601) = NR2 (F4D6011,F4D6012) \$
F4C62(F4C6012) = NR2 (ADRCM12,NUNDER6) \$
F4C61(F4C6011) = A04 (ADRCNT00,E4F201,MA1315,F4E501) \$
F4C6(F4C601) = NR2 (F4C6011,F4C6012) \$
F4E82(F4E8012) = NR2 (ADRCNT02,NUNDER6) \$
F4E81(F4E8011) = A04 (ADRCNT04,E4F201,ADRCNT03,F4E501) \$
F4E8(F4E801) = NR2 (F4E8011,F4E8012) \$
F4E72(F4E7012) = NR2 (ADRCNT00,NUNDER6) \$
F4E71(F4E7011) = A04 (ADRCNT02,E4F201,ADRCNT01,F4E501) \$
F4E7(F4E701) = NR2 (F4E7011,F4E7012) \$
F4E62(F4E6012) = NR2 (ADRCNT06,NUNDER6) \$
F4E61(F4E6011) = A04 (ADRCNT08,E4F201,ADRCNT07,F4E501) \$
F4E6(F4E601) = NR2 (F4E6011,F4E6012) \$
F4D52(F4D5012) = NR2 (ADRCM13,NUNDER6) \$
F4D51(F4D5011) = A04 (ADRCNT01,E4F201,ADRCNT00,F4E501) \$
F4D5(F4D501) = NR2 (F4D5011,F4D5012) \$
F4D42(F4D4012) = NR2 (ADRCNT07,NUNDER6) \$
F4D41(F4D4011) = A04 (E4F201,ADRCNT09,ADRCNT08,F4E501) \$
F4D4(F4D401) = NR2 (F4D4011,F4D4012) \$
F4C52(F4C5012) = NR2 (ADRCNT03,NUNDER6) \$
F4C51(F4C5011) = A04 (ADRCNT05,E4F201,ADRCNT04,F4E501) \$
F4C5(F4C501) = NR2 (F4C5011,F4C5012) \$
F4C42(F4C4012) = NR2 (ADRCNT01,NUNDER6) \$
F4C41(F4C4011) = A04 (ADRCNT03,E4F201,ADRCNT02,F4E501) \$
F4C4(F4C401) = NR2 (F4C4011,F4C4012) \$
F4B62(F4B6012) = NR2 (ADRCNT04,NUNDER6) \$
F4B61(F4B6011) = A04 (E4F201,ADRCNT06,ADRCNT05,F4E501) \$
F4B6(F4B601) = NR2 (F4B6011,F4B6012) \$
F4B22(F4B2012) = NR2 (ADRCNT10,NUNDER6) \$
F4B21(F4B2011) = A04 (E4F201,ADRCNT12,ADRCNT11,F4E501) \$
F4B2(F4B201) = NR2 (F4B2011,F4B2012) \$
F4A52(F4A5012) = NR2 (ADRCNT13,NUNDER6) \$
F4A51(F4A5011) = A04 (E4F201,ADRCNT15,ADRCNT14,F4E501) \$
F4A5(F4A501) = NR2 (F4A5011,F4A5012) \$
E4H22(E4H2012) = NR2 (ADRCNT08,NUNDER6) \$
E4H21(E4H2011) = A04 (E4F201,ADRCNT10,ADRCNT09,F4E501) \$
E4H2(E4H201) = NR2 (E4H2011,E4H2012) \$
E4D12(E4D1012) = NR2 (ADRCNT12,NUNDER6) \$
E4D11(E4D1011) = A04 (E4F201,ADRCNT14,ADRCNT13,F4E501) \$
E4D1(E4D101) = NR2 (E4D1011,E4D1012) \$
E3A222(E3A22012) = NR2 (ADRCNT11,NUNDER6) \$
E3A221(E3A22011) = A04 (E4F201,ADRCNT13,ADRCNT12,F4E501) \$
E3A22(E3A2201) = NR2 (E3A22011,E3A22012) \$
D4G22(D4G2012) = NR2 (ADRCNT09,NUNDER6) \$
D4G21(D4G2011) = A04 (E4F201,ADRCNT11,ADRCNT10,F4E501) \$
D4G2(D4G201) = NR2 (D4G2011,D4G2012) \$
F4B8N(MA1315) = IV (MA1315N) \$
F4B8(MA1315N) = MUX21L (ADRCNT13,ADRCNT15,CRTCM5) \$
E4C1N(E4C101) = IV (E4C101N) \$
E4C1(E4C101N) = MUX21L (ROWCNT1,E4D101,CRTCM1) \$
E3A21N(E3A2101) = IV (E3A2101N) \$

E3A21(E3A2101N) = MUX21L (ROWCNT0,E3A2201,CRTCM0) \$
RB281(F2D601) = NR2 (F2D601N,FCAS1) \$
RB282(F2D401) = NR2 (F2D401N,FCAS3) \$
F2D6(F2D601N) = A02 (ATT02QN1,NJADD0,ATT02Q2,F2C601) \$
F2D5N(F2D501) = IV (F2D501N) \$
F2D5(F2D501N) = A02 (ATT02QN1,ADR0,ATT02Q2,F2C401) \$
F2D4(F2D401N) = A02 (ATT02QN1,NJADD0,ATT02Q2,F2C201) \$
F2C16N(F2C1601) = IV (F2C1601N) \$
F2C16(F2C1601N) = A02 (F2D14Q,E2E13Q,E2E13NQ,E2H10Q) \$
F2C9N(F2C901) = IV (F2C901N) \$
F2C9(F2C901N) = A02 (ATT02QN1,ADR0,F2C801,ATT02Q2) \$
F2B11N(F2B1101) = IV (F2B1101N) \$
F2B11(F2B1101N) = A02 (F2C15Q,E2E13Q,E2E13NQ,F2B10Q) \$
F2A5N(F2A501) = IV (F2A501N) \$
F2A5(F2A501N) = A02 (ATT02Q2,ADRM15,ATT02QN2,ADDR01) \$
F2A2N(F2A201) = IV (F2A201N) \$
F2A2(F2A201N) = A02 (ADRM14,ATT02Q2,F1A901,ATT02QN2) \$
E2G12N(E2G1201) = IV (E2G1201N) \$
E2G12(E2G1201N) = A02 (E2E13Q,E2H11Q,E2G11Q,E2E13NQ) \$
RB257(RFSCNT4,,RFSCNT5,,RFSCNT6,,RFSCNT7
,) = TCNT4 (E3H1901,NRESET) \$
RB277(RFSCNT0,,RFSCNT1,,RFSCNT2,,RFSCNT3
,RFSCNTN3) = TCNT4 (NT51,NRESET) \$
RB378(SEQ3Q0,,SEQ3Q1,,SEQ3Q2,,SEQ3Q3
,,SEQ3Q4,,SEQ3Q5,) = YFFD6 (WTRSEQ03,E2G901
,DATAIN0,DATAIN1,DATAIN2,DATAIN3,DATAIN4,DATAIN5) \$
ATT02(ATT02Q0,ATT02QN0,ATT02Q1,ATT02QN1,,ATT02QN2) = LDG3
(WTRSEQ04
,DATAIN1,DATAIN2,DATAIN3) \$
RB31(ATT02Q2) = IVP (ATT02QN2) \$
RB377(SEQ2Q0,SEQ2QN0,SEQ2Q1,SEQ2QN1,SEQ2Q2,SEQ2QN2,SEQ2Q3
,SEQ2QN3) = LDG4 (WTRSEQ02,DATAIN0,DATAIN1,DATAIN2
,DATAIN3) \$
E4A10(ADR0) = B4I (NJADD0) \$
D2G4(ADR1) = IVP (NADDR1) \$
F2C8(F2C801) = OR2 (ADR1,ADR0) \$
F2C6(F2C601) = OR2 (ADR1,NJADD0) \$
F2C4(F2C401) = OR2 (NADDR1,ADR0) \$
F2C2(F2C201) = OR2 (NADDR1,NJADD0) \$
F2D14(F2D14Q,) = YFD2 (SEQ3Q3,B3A1301,E2G901) \$
F2C15(F2C15Q,) = YFD2 (SEQ3Q2,B3A1301,E2G901) \$
F2B10(F2B10Q,) = YFD2 (SEQ3Q0,B3A1301,E2G901) \$
F1B16(F1B1601) = ND2 (F1B701,ATT02QN0) \$
F1B15(F1B1501) = ND2 (GC06Q1,F1B1601) \$
F1B14(F1B1401) = ND2 (JADD0,F1B1501) \$
F1B12(F1B1201) = ND4 (F1B701,ADDR16,F1B1301,GC06Q1) \$
F1A12(F1A1201) = ND4 (F1A401,ATT02QN0,ADDR14,GC06Q1) \$
F1A9(F1A901) = ND4 (F1A1201,F1A801,F1B1401,F1B1201) \$
F1A8(F1A801) = ND4 (F1A1001,F1B1301,GC06Q1,F1A401) \$
F1B13(F1B1301) = IVP (ATT02QN0) \$
F1A10(F1A1001) = IVP (R3C2Q5) \$
F1A4(F1A401) = IVP (F1B701) \$
E4H1(F4E501) = OR2P (UNDER6,CRTCM6) \$
E4F1(E4F201) = OR2P (NCRTCM6,UNDER6) \$
E3H19(E3H1901) = EO (RFSCNTN3,TEST3Z) \$
E3C11(ROWCNTL1,) = LD2 (ROWCNT1,CRTLTH) \$
E3A15(ROWCNTL0,) = LD2 (ROWCNT0,CRTLTH) \$
E2H11(E2H11Q,) = YFD2 (SEQ3Q5,B3A1301,E2G901) \$
E2H10(E2H10Q,) = YFD2 (SEQ3Q1,B3A1301,E2G901) \$
E2G11(E2G11Q,) = YFD2 (SEQ3Q4,B3A1301,E2G901) \$
D3G14(ROWCNTL3,) = LD2 (ROWCNT3,CRTLTH) \$
D3G13(ROWCNTL2,) = LD2 (ROWCNT2,CRTLTH) \$


```

D3G12( ROWCNT4, ) = LD2 ( ROWCNT4,CRTLTH ) $
RB343( E4G201,F3B1601,F3D1701,F4B301,F4C101,F4C301,F4D301
,F4B501 ) = MUX168 ( NT49,RFSCNT7,F4D601,RFSCNT0,F4C601,RFSCNT1
,F4D501,RFSCNT3,F4C401,RFSCNT2,F4E701,RFSCNT4,F4E801
,RFSCNT5,F4C501,RFSCNT6,F4B601 ) $
F4A2( YA7,YB7 ) = ADMUX2 ( E3A1401,E3F1201,D2E901,NT9,NAMXGR
,ADMUXCPU,NAMXCPU,D3F1601,ADDR07,E4G201,E3H10Q,F1B1001
,F4A501,F2C1601 ) $
E3G15( YA1,YB1 ) = ADMUX2 ( E3A1401,E3F1201,D2E901,NT9,NAMXGR
,ADMUXCPU,NAMXCPU,D3F1601,F2A501,F3D1701,ROWCNTL1,ADDR08
,F4E601,F3E12Q ) $
E3H17( YA5,YB5 ) = ADMUX2 ( E3A1401,E3F1201,D2E901,NT9,NAMXGR
,ADMUXCPU,NAMXCPU,D3F1601,ADDR05,F4D301,E3E12Q,ADDR12
,F4B201,F4E2Q ) $
E3F16( YA2,YB2 ) = ADMUX2 ( E3A1401,E3F1201,D2E901,NT9,NAMXGR
,ADMUXCPU,NAMXCPU,D3F1601,ADDR02,F4C101,ROWCNTL2,ADDR09
,F4D401,D4H1Q ) $
E3D15( YA0,YB0 ) = ADMUX2 ( E3A1401,E3F1201,D2E901,NT9,NAMXGR
,ADMUXCPU,NAMXCPU,D3F1601,F2A201,F3B1601,ROWCNTL0,ADDR14
,E4C101,F2B1101 ) $
E3C16( YA3,YB3 ) = ADMUX2 ( E3A1401,E3F1201,D2E901,NT9,NAMXGR
,ADMUXCPU,NAMXCPU,D3F1601,ADDR03,F4B301,ROWCNTL3,ADDR10
,E4H201,D3H16Q ) $
E3F15( YA6,YB6 ) = ADMUX2 ( E3A1401,E3F1201,D2E901,NT9,NAMXGR
,ADMUXCPU,NAMXCPU,D3F1601,ADDR06,F4B501,E3G7Q,ADDR13
,E3A2101,E2G1201 ) $
E3B18( YA4,YB4 ) = ADMUX2 ( E3A1401,E3F1201,D2E901,NT9,NAMXGR
,ADMUXCPU,NAMXCPU,D3F1601,ADDR04,F4C301,ROWCNTL4,ADDR11
,D4G201,D3E15Q ) $
END : MODULE $
MODULE : ADRGN/// $
INPUTS :
NCHRCLK,D2H801,NT10,CRTLTH,B4B1001,CHAN,B4E301,B3F1101,C3G1601
,C3B11NQ,CHRCLK,D2D12NQ,D2E801,NT48,TESTFZ,LCOMP,D2D2NQ,C3A701
,D2H13NQ,TEST4Z,ADD16NMR,B3F7NQ,C4A9Q,C3A10NQ,CRTCM3,C3A1401,NRESET
,WCRTC08,WCRTC0B,WCRTC0A,WCRTC0F,WCRTC0D,WCRTC0C,WCRTC0E,NT110
,NT111,WCRTC14,WCRTC13,DATAIN0,DATAIN1,DATAIN2,DATAIN3,DATAIN7
,DATAIN6,DATAIN4,DATAIN5,SSS,CCC,E6845,VGAMODO,ERT3D7,R3D6NQ0
,R3D6Q0,R3D6NQ1,R3D6Q1,R3D6Q2,R3D6Q3,R3D6NQ4,R3D6Q4,R3D6NQ5,R3D6NQ6
,R3D6NQ7,C3G901,ADRCNT15,ADRCNT13,ADRCNT12,ADRCNT11,ADRCNT10
,ADRCNT09
,ADRCNT08,ADRCNT07,ADRCNT06,ADRCNT05,ADRCNT04,ADRCNT03,ADRCNT02
,ADRCNT01,ADRCNT00,ROWCNT0,ROWCNT1,ROWCNT2,ROWCNT3,ROWCNT4,UACCLA
,CURDSP
$
OUTPUTS :
EQMAXSL,B4F1901,C4G1301,NCRTLTH,ELC4,ELC3,ELC2,ELC1,ELC0,CRTC8Q4
,CRTC8Q3,CRTC8Q2,CRTC8Q1,CRTC8Q0,CURST5,CURST4,CURST3,CURST2,CURST1
,CURST0,UNDER6,UNDER5,UNDER4,UNDER3,UNDER2,UNDER1,UNDER0,NUNDER6
,CURSK1,CURSK0,CURSE4,CURSE3,CURSE2,CURSE1,CURSE0,CRTC8Q6,CRTC8Q5
,CURADD07,CURADD06,CURADD05,CURADD04,CURADD03,CURADD02,CURADD01
,CURADD00,CURADD15,CURADD14,CURADD13,CURADD12,CURADD11,CURADD10
,CURADD09,CURADD08,OFFSET7,OFFSET6,OFFSET5,OFFSET4,OFFSET3,OFFSET2
,OFFSET1,OFFSET0,STADDQ15,STADDQ14,STADDQ13,STADDQ12,STADDQ11
,STADDQ10,STADDQ09,STADDQ08,STADDQ07,STADDQ06,STADDQ05,STADDQ04
,STADDQ03,STADDQ02,STADDQ01,STADDQ00,NT83,VERBS9,LINEC9,MAXSL4
,MAXSL3,MAXSL2,MAXSL1,MAXSL0,NRFAMX,B3G701,NT49,ACCLA,C3C1101
,D3F1601,D3A1101,EQCURAD,C5D601,NEQMAXSL,A3C1701,NT101,NT100,NT99
,NT98,NT97,NT96,NT95,NT94,NT93,NT92,NT91,NT90,NT89,NT88,NT87,NT86
,EXRDB0,EXRDB1,EXRDB2,EXRDB3,EXRDB4,EXRDB5,EXRDB6,EXRDB7,C3G1901
,STLN15,STLN14,STLN13,STLN12,STLN11,STLN10,STLN9,STLN8,STLN7,STLN6
,STLN5,STLN4,STLN3,STLN2,STLN1,STLN0,D5H601,AOFSETZ,OFFSETS7

```

,OFFSETS6
,OFFSETS5,OFFSETS4,OFFSETS3,OFFSETS2,OFFSETS1,OFFSETS0,EDAD15
,EDAD14,EDAD13,EDAD12,EDAD11,EDAD10,EDAD9,EDAD8,EDAD7,EDAD6,EDAD5
,EDAD4,EDAD3,EDAD2,EDAD1,EDAD0,FIX1Z,C3C8Q,C3G1801,C3F17Q,C4F1Q

\$

DESCRIPTION : MODULE FOR ADRGN \$

LEVEL : FUNCTION \$

USE :

YFD1 /// MASTER
,RWCNT1 ///
,TCNT2 ///
,YLDG6 ///
,YLDG5 ///
,LDG2 ///
,IVP /// MASTER
,YLDG8 ///
,A2T1B8 ///
,LDG3 ///
,YFD2 /// MASTER
,FD2 /// MASTER
,B4IP /// MASTER
,EOP /// MASTER
,EO /// MASTER
,AN2 /// MASTER
,ENP /// MASTER
,ND2 /// MASTER
,NR2 /// MASTER
,OR2 /// MASTER
,A07P /// MASTER
,FD4 /// MASTER
,FD2P /// MASTER
,OR3 /// MASTER
,A06P /// MASTER
,ADD161 ///
,MUX41 /// MASTER
,CNT16 ///
,EQL16 ///
,EQL4N ///
,A02 /// MASTER
,IV /// MASTER
,ND3 /// MASTER
,A04 /// MASTER
,A07 /// MASTER
,LD4G2 ///
,MUX21L /// MASTER
,FJK2 /// MASTER
,NR2P /// MASTER
,ND4 /// MASTER

\$

DEFINE :

RB790(D3D7Q,) = YFD1 (D3D7QI,D2H801) \$
B3B18(ELC0,ELC1,ELC2,ELC3,ELC4) = RWCNT1 (CRTC8NQ0,CRTC8NQ1
,CRTC8NQ2,CRTC8NQ3,CRTC8NQ4,C3A1401,ENROWCNT,LDROWCNT,NRESET
) \$
CCLKDV(CCLKDV0,CCLKDV0N,CCLKDV1,CCLKDV1N) = TCNT2 (NCHRCLK
,B3C1401) \$
CRTC0A(NCURST5,CURST5,,CURST4,,CURST3,
,CURST2,,CURST1,,CURST0) = YLDG6 (DATAIN5,DATAIN4
,DATAIN3,DATAIN2,DATAIN1,DATAIN0,WCRTC0A) \$
RB151(,UNDER4,,UNDER3,,UNDER2,

```

,UNDER1,,UNDER0 ) = YLDG5 ( DATAIN4,DATAIN3,DATAIN2,DATAIN1
,DATAIN0,WCRTC14 ) $
RB150( UNDER5,,UNDER6, ) = LDG2 ( WCRTC14,DATAIN5,DATAIN6
) $
RB155( NUNDER6 ) = IVP ( UNDER6 ) $
RB135( ,CURSE4,,CURSE3,,CURSE2,
,CURSE1,,CURSE0 ) = YLDG5 ( DATAIN4,DATAIN3,DATAIN2,DATAIN1
,DATAIN0,WCRTC0B ) $
RB134( CURSK0,,CURSK1, ) = LDG2 ( WCRTC0B,DATAIN5,DATAIN6
) $
RB142( CRTC8NQ4,CRTC8Q4,CRTC8NQ3,CRTC8Q3,CRTC8NQ2,CRTC8Q2,CRTC8NQ1
,CRTC8Q1,CRTC8NQ0,CRTC8Q0 ) = YLDG5 ( DATAIN4,DATAIN3
,DATAIN2,DATAIN1
,DATAIN0,WCRTC08 ) $
RB141( CRTC8Q5,,CRTC8Q6, ) = LDG2 ( WCRTC08,DATAIN5,DATAIN6
) $
CRTC0F( ,CURADD07,,CURADD06,,CURADD05,
,CURADD04,,CURADD03,,CURADD02,,CURADD01
,,CURADD00 ) = YLDG8 ( DATAIN7,DATAIN6,DATAIN5,DATAIN4,DATAIN3
,DATAIN2,DATAIN1,DATAIN0,WCRTC0F ) $
CRTC0E( ,CURADD15,,CURADD14,,CURADD13,
,CURADD12,,CURADD11,,CURADD10,,CURADD09
,,CURADD08 ) = YLDG8 ( DATAIN7,DATAIN6,DATAIN5,DATAIN4,DATAIN3
,DATAIN2,DATAIN1,DATAIN0,WCRTC0E ) $
OFFMUX( OFFSETS0,OFFSETS7,OFFSETS6,OFFSETS5,OFFSETS4,OFFSETS3
,OFFSETS2
,OFFSETS1 ) = A2T1B8 ( VGAMODO,NAOFFSET7,NOFSET7,NAOFFSET6
,NOFSET6,NAOFFSET5
,NOFSET5,NAOFFSET4,NOFSET4,NAOFFSET3,NOFSET3,NAOFFSET2,NOFSET2
,NAOFFSET1,NOFSET1,NAOFFSET0,NOFSET0 ) $
CRTC13( NOFSET7,OFFSET7,NOFSET6,OFFSET6,NOFSET5,OFFSET5,NOFSET4
,OFFSET4,NOFSET3,OFFSET3,NOFSET2,OFFSET2,NOFSET1,OFFSET1
,NOFSET0,OFFSET0 ) = YLDG8 ( DATAIN7,DATAIN6,DATAIN5
,DATAIN4,DATAIN3
,DATAIN2,DATAIN1,DATAIN0,WCRTC13 ) $
R3D71E( NAOFFSET7,AOFFSET7,NAOFFSET6,AOFFSET6,NAOFFSET5,AOFFSET5
,NAOFFSET4
,AOFFSET4,NAOFFSET3,AOFFSET3,NAOFFSET2,AOFFSET2,NAOFFSET1,AOFFSET1
,NAOFFSET0,AOFFSET0 ) = YLDG8 ( DATAIN7,DATAIN6,DATAIN5
,DATAIN4,DATAIN3
,DATAIN2,DATAIN1,DATAIN0,W3D71E ) $
CRTC0C( ,STADDQ15,,STADDQ14,,STADDQ13,
,STADDQ12,,STADDQ11,,STADDQ10,,STADDQ09
,,STADDQ08 ) = YLDG8 ( DATAIN7,DATAIN6,DATAIN5,DATAIN4,DATAIN3
,DATAIN2,DATAIN1,DATAIN0,WCRTC0C ) $
CRTC0D( ,STADDQ07,,STADDQ06,,STADDQ05,
,STADDQ04,,STADDQ03,,STADDQ02,,STADDQ01
,,STADDQ00 ) = YLDG8 ( DATAIN7,DATAIN6,DATAIN5,DATAIN4,DATAIN3
,DATAIN2,DATAIN1,DATAIN0,WCRTC0D ) $
RB143( LINEC9,,VERBS9,,NT83, ) = LDG3 ( NT110
,DATAIN5,DATAIN6,DATAIN7 ) $
RB144( ,MAXSL4,,MAXSL3,,MAXSL2,
,MAXSL1,,MAXSL0 ) = YLDG5 ( DATAIN4,DATAIN3,DATAIN2,DATAIN1
,DATAIN0,NT111 ) $
C3B9( C3B9Q, ) = YFD2 ( C3B1001,C3A1401,FIX1Z ) $
C3C8( C3C8Q, ) = YFD2 ( C3B7Q,NCHRCLK,NRESET ) $
C3B7( C3B7Q, ) = YFD2 ( C4A9Q,NCHRCLK,NRESET ) $
C3B5( ,NRFAMX ) = FD2 ( B3G701,NCHRCLK,B3G701 ) $
F3B15( NT49 ) = IVP ( NRFAMX ) $
D5H6( D5H601 ) = B4IP ( B3G13NQ ) $
D4D1( ADD16CL ) = EOP ( TEST4Z,C3C1101 ) $
RB25( ADD16CLD, ) = YFD1 ( ADD16CL,D2H801 ) $

```

D4B16(D4B1601) = EO (CURSE4,ROWCNT4) \$
D3C8(D3C801) = AN2 (NRFAMX,NRESET) \$
FIX1(FIX1Z) = AN2 (C3A10NQ,NRESET) \$
D3E7(D3E7Q,) = YFD2 (EQCURADM,D3D601,D3C801) \$
D3D9(D3D9Q,) = YFD2 (D3C9Q,NCHRCLK,D3C801) \$
D3D7(D3D7QI,) = YFD2 (D3E7Q,D3C201,D3C801) \$
D3C9(D3C9Q,) = YFD2 (D3D7Q,NCHRCLK,D3C801) \$
D3A9(D3A9Q,) = YFD2 (D3D9Q,NCHRCLK,D3C801) \$
D2C17(NCRTLTH) = ENP (D2C1401,TESTFZ) \$
D2C14(D2C1401) = ND2 (NT48,D2D2NQ) \$
C5D6(C5D601) = NR2 (C5E801,C4D1201) \$
C4D12(C4D1201) = EO (UNDER4,ROWCNT4) \$
C3C11(C3C1101) = OR2 (C3B9Q,C3C8Q) \$
C3B10(C3B1001) = NR2 (NEQMAXSL,C3B11NQ) \$
B4G3(NEQMAXSL) = IVP (EQMAXSL) \$
B4D2(B4D201) = A07P (NT11,SEL DV4,B4E301) \$
B4B13(EQMAXSL) = NR2 (B4A1401,B5B1401) \$
B4F17(B4F1701) = EO (CURST4,ROWCNT4) \$
B4A14(B4A1401) = EO (MAXSL4,ELC4) \$
B3C14(B3C1401) = AN2 (NRESET,B3B1601) \$
B3D15(B3D15Q,) = FD4 (B4D201,CHRCLK,NRESET) \$
B3G13(B3G13NQ,B3G13Q) = FD2P (B3G901,CHRCLK,NRESET) \$
B3B16(B3B1601) = OR3 (CCLKDV0,B3D1401,CCLKDV1) \$
B3D14(B3D1401) = ND2 (B3D15Q,B4D201) \$
B3G7(B3G701) = NR2 (B3F1101,B3F7NQ) \$
A3D17(A3D1701) = A06P (C3G1601,EQMAXSL,LCOMP) \$
A3C17(A3C1701) = ND2 (A3E1801,A3D1701) \$
A3E18(A3E1801) = OR2 (LCOMP,C3G1601) \$
A3C18(ENROWCNT) = IVP (A3D1701) \$
A3C19(LDROWCNT) = ND2 (A3D1701,A3E1801) \$
RB342(RESET1) = IVP (NRESET) \$
D5D8(NT86,NT87,NT88,NT89,NT90,NT91,NT92
,NT93,NT94,NT95,NT96,NT97,NT98,NT99
,NT100,NT101,STLN0,NSTLN0,STLN1,NSTLN1,STLN2
,NSTLN2,STLN3,NSTLN3,STLN4,NSTLN4,STLN5,NSTLN5
,STLN6,NSTLN6,STLN7,NSTLN7,STLN8,NSTLN8,STLN9
,NSTLN9,STLN10,NSTLN10,STLN11,NSTLN11,STLN12,NSTLN12
,STLN13,NSTLN13,STLN14,NSTLN14,STLN15,NSTLN15) = ADD161
(ADD16CLD
,C3G1601,ADD16NMR,STADDQ00,STADDQ01,STADDQ02,STADDQ03,STADDQ04
,STADDQ05,STADDQ06,STADDQ07,STADDQ08,STADDQ09,STADDQ10,STADDQ11
,STADDQ12,STADDQ13,STADDQ14,STADDQ15,AOFSETZ,OFFSETS0,OFFSETS1
,OFFSETS2,OFFSETS3,OFFSETS4,OFFSETS5,OFFSETS6,OFFSETS7,SSS
) \$
D3D10(D3A1101) = MUX41 (D3D7Q,D3C9Q,D3D9Q,D3A9Q,CURSK0,CURSK1
) \$
D5E6(EDAD0,,EDAD1,,EDAD2,,EDAD3
,,EDAD4,,EDAD5,,EDAD6,
,EDAD7,,EDAD8,,EDAD9,,EDAD10
,,EDAD11,,EDAD12,,EDAD13,
,EDAD14,,EDAD15,) = CNT16 (UACCLA,UACCLA,UACCLA
,UACCLA,E6845,D5H601,RESET1,STLN0,NSTLN0,STLN1
,NSTLN1,STLN2,NSTLN2,STLN3,NSTLN3,STLN4,NSTLN4
,STLN5,NSTLN5,STLN6,NSTLN6,STLN7,NSTLN7,STLN8
,NSTLN8,STLN9,NSTLN9,STLN10,NSTLN10,STLN11,NSTLN11
,STLN12,NSTLN12,STLN13,NSTLN13,STLN14,NSTLN14,STLN15
,NSTLN15) \$
RB131(EQCURAD) = EQU16 (CURADD15,CURADD14,CURADD13
,CURADD12,CURADD11,CURADD10
,CURADD09,CURADD08,CURADD07,CURADD06,CURADD05,CURADD04,CURADD03
,CURADD02,CURADD01,CURADD00,ADRCNT15,NT10,ADRCNT13,ADRCNT12
,ADRCNT11,ADRCNT10,ADRCNT09,ADRCNT08,ADRCNT07,ADRCNT06,ADRCNT05

```

,ADRCNT04,ADRCNT03,ADRCNT02,ADRCNT01,ADRCNT00 ) $
D5A11( C5E801 ) = EQU4N ( UNDER0,UNDER3,UNDER2,UNDER1
,ROWCNT0,ROWCNT3
,ROWCNT2,ROWCNT1 ) $
C4G16( EQCUREND ) = EQU4N ( CURSE3,CURSE0,CURSE2,ROWCNT1
,ROWCNT3,ROWCNT0
,ROWCNT2,CURSE1 ) $
B5E9( EQCURST ) = EQU4N ( ROWCNT1,ROWCNT3,CURST0,CURST2
,CURST1,CURST3
,ROWCNT0,ROWCNT2 ) $
B5B15( B5B1401 ) = EQU4N ( ELC3,MAXSL1,MAXSL2,MAXSL0,MAXSL3,ELC1
,ELC2,ELC0 ) $
B3G9( B3G901 ) = A02 ( CCC,B4B1001,B3G13Q,B3G701 ) $
B3D16( B3D1601N ) = A02 ( CCLKDV1N,SELDV4,NT11,CCLKDV0N ) $
B3D16N( CCLKDIV ) = IV ( B3D1601N ) $
B3C13( B3C1301N ) = A02 ( B3D1401,CCLKDIV,NCHRCLK,B3D15Q ) $
B3C13N( ACCLA ) = IVP ( B3C1301N ) $
D3C2( D3C201 ) = ND3 ( D3C201N,C3A701,D2D2NQ ) $
D2C13( D3C201N ) = A04 ( D2E801,D2D12NQ,C3A701,D2H13NQ ) $
D3D6( D3D601N ) = A07 ( D2H13NQ,C3A701,CRTLTH ) $
D3D6N( D3D601 ) = IV ( D3D601N ) $
D2C13N( D3F1601 ) = IVP ( D3C201N ) $
R3D70D( R3D70DQ0,NT54,R3D70DQ1,NT55 ) = LD4G2 ( W3D70D
,NRESET,DATAIN0
,DATAIN1 ) $
AOFSET( AOFSETZ ) = MUX21L ( NT54,NT55,VGAMODO ) $
RB194( EXRDB3 ) = AN2 ( SR3D71E,AOFFSET3 ) $
RB195( EXRDB4 ) = AN2 ( SR3D71E,AOFFSET4 ) $
RB196( EXRDB5 ) = AN2 ( SR3D71E,AOFFSET5 ) $
RB197( EXRDB6 ) = AN2 ( SR3D71E,AOFFSET6 ) $
RB198( EXRDB7 ) = AN2 ( SR3D71E,AOFFSET7 ) $
RB193( EXRDB2 ) = AN2 ( SR3D71E,AOFFSET2 ) $
RB191( EXRDB0 ) = IVP ( NEXRDB0 ) $
RB192( EXRDB1 ) = IVP ( NEXRDB1 ) $
RB189( NEXRDB0 ) = A02 ( AOFFSET0,SR3D71E,R3D70DQ0,S3D70D ) $
RB190( NEXRDB1 ) = A02 ( AOFFSET1,SR3D71E,R3D70DQ1,S3D70D ) $
C4G13( C4G1301 ) = NR2 ( D4B1601,EQCUREND ) $
C4F1( C4F1Q, ) = YFD2 ( C4G1301,C3G1801,C3G901 ) $
B4F19( B4F1901 ) = NR2 ( B4F1701,EQCURST ) $
C3F16( ,C3F16NQ ) = YFD2 ( CCC,C4F1Q,C3G901 ) $
C3G15( C3G1501 ) = AN2 ( B4F1901,C3F16NQ ) $
C3F17( C3F17Q, ) = FJK2 ( C3G1501,C4F1Q,C3G1801,C3G901 ) $
C3G19( C3G1901 ) = AN2 ( D3A1101,NCURST5 ) $
C3G18( C3G1801 ) = IVP ( C3A1401 ) $
B4D3M( SELDV4 ) = AN2 ( UNDER5,CHANIVZ ) $
CHANNR( CHANIVZ ) = NR2 ( CRTCM3,CHAN ) $
CHANIV( NT11 ) = IV ( CHANIVZ ) $
RB454( W3D71E ) = ND2 ( ERT3D7,SR3D71E ) $
RB453( W3D70D ) = ND2 ( ERT3D7,S3D70D ) $
RB391( S3D70D ) = NR2 ( GRPHIG,P3D70D ) $
RB387( SR3D71E ) = NR2P ( GRPHIG,P3D71E ) $
RB241( GRPHIG ) = ND4 ( R3D6NQ7,R3D6NQ6,R3D6NQ5,R3D6Q3 ) $
RB333( P3D71E ) = ND4 ( R3D6Q4,R3D6Q2,R3D6Q1,R3D6NQ0 ) $
RB332( P3D70D ) = ND4 ( R3D6NQ4,R3D6Q2,R3D6NQ1,R3D6Q0 ) $
FBFCSR( EQCURADM ) = AN2 ( CURDSP,EQCURAD ) $
END : MODULE $
MODULE : CBERT07/// $
INPUTS :
MCLK,BPAL5,BPAL4,BPAL3,BPAL2,BPAL1,BPAL0,GPAL5,GPAL4,GPAL3,GPAL2
,GPAL1,GPAL0,RPAL5,RPAL4,RPAL3,RPAL2,RPAL1,RPAL0,PALCLK,SLEEP
,M2D1,M2D5,M2D6,AD01,AD14,AD06,M2D7,M2D4,AD11,M3D0,M3D1,M3D2
,M3D3,M3D4,M3D5,M3D6,M3D7,BHE,AD02,AD03,M1D2,M1D4,M1D7,M1D1,M1D6

```

,M1D0,M1D5,M2D3,VGACMD,MIO,M2D2,ENABLE,AD13,AD05,AD09,AD04,AD10
,S0,S1,M1D3,M0D0,M0D1,M0D6,M0D4,SENSE,A16,A17,A18,DATAEN,RDHI
,RDLO,RESET,CLK2,CLK1,CLK0,ADDHI,AD12,AD08,AD00,SETUP,AD07,AD15
,M2D0,M0D3,M0D2,M0D7,M0D5

\$

OUTPUTS :

PNL7,PNL6,PNL5,PNL4,PNL3,PNL2,PNL1,PNL0,PNL15,PNL14,PNL13,PNL12
,PNL11,PNL10,PNL9,PNL8,PALCLK,M2D1,M2D5,M2D6,SHFCLK,ERMEN,ACDCLK
,PALRD,PALWR,BLANK,AD01,AD14,AD06,M2D7,M2D4,AD11,AA6,CAS0,M3D0
,M3D1,M3D2,M3D3,M3D4,M3D5,M3D6,M3D7,VIDEO0,VIDEO1,VIDEO2,VIDEO3
,VIDEO4,VIDEO5,VIDEO6,VIDEO7,AA1,AD02,AD03,BA2,BA3,M1D2,WE,M1D4
,VSYNC,M1D7,M1D1,M1D6,M1D0,M1D5,M2D3,BA5,BA0,CAS1,CAS2,M2D2,AA0
,VGARDY,AA7,CAS3,AD13,AD05,AD09,AD04,BA1,AD10,VGAREQ,AA4,M1D3
,DS16,AA3,M0D0,M0D1,M0D6,M0D4,BA4,DATAEN,RDHI,TRAP,RDLO,AA5,CLK2
,CLK1,RAS,AA2,HSYNC,AD12,AD08,VGAINT,AD00,AD07,BA7,AD15,M2D0,BA6
,M0D3,M0D2,M0D7,M0D5,ROMCSN

\$

BIDIRECT :

PALCLK,M2D1,M2D5,M2D6,AD01,AD14,AD06,M2D7,M2D4,AD11,M3D0,M3D1
,M3D2,M3D3,M3D4,M3D5,M3D6,M3D7,AD02,AD03,M1D2,M1D4,M1D7,M1D1,M1D6
,M1D0,M1D5,M2D3,M2D2,AD13,AD05,AD09,AD04,AD10,M1D3,M0D0,M0D1,M0D6
,M0D4,DATAEN,RDHI,RDLO,CLK2,CLK1,AD12,AD08,AD00,AD07,AD15,M2D0
,M0D3,M0D2,M0D7,M0D5

\$

DESCRIPTION : MODULE FOR CBERT07 \$

LEVEL : CHIP \$

DEFINE :

RB789(,IPALCLK) = B2IP (IPALCLKI) \$
RB788(RESET12) = B4I (CHRESETQ) \$
RB787(NRESET2) = B4IP (RESET12) \$
RB786(P140) = MUX21H (OP11A16I,P14,R3D708Q2) \$
RB785(OP11A16) = IV (OP11A16I) \$
RB784(CLK2,EXTOSC,) = BD4T (R3C2Q3,NC/0/,R3D705Q2,NC/0/
) \$
RB783(CLK1,CLK1I,) = BD4T (R3C2Q2,NC/0/,R3D705Q2,NC/0/
) \$
RB782(RD45B2) = IV (RD45B2I) \$
RB781(RD45B1) = IV (RD45B1I) \$
RB780(RD45B0) = IV (RD45B0I) \$
RB779(RD45B3) = AN2 (SEL3D704,R3D704Q3) \$
RB778(RD45B2I) = A02 (SEL3D704,R3D704Q2,SEL3D705,R3D705Q2) \$
RB777(RD45B1I) = A02 (SEL3D704,R3D704Q1,SEL3D70B,R3D70BQ1) \$
RB776(RD45B0I) = A02 (SEL3D704,R3D704Q0,SEL3D70B,R3D70BQ0) \$
RB775(R3D705Q2,) = LD4 (DATAIN02,WR3D705,NRESET) \$
RB774(WR3D705) = ND2 (SEL3D705,N3D7WR2) \$
RB773(SEL3D705) = NR2 (OD705A,OP7A18) \$
RB772(OD705A) = ND5 (R3D6NQ4,R3D6NQ3,R3D6Q2,R3D6NQ1,R3D6Q0) \$
RB771(IMCLK,) = TLCHT (MCLK,NC/0/) \$
CDAL(P0,P1,P2,P3,P4,P5,P6
,P7,P8,P9,P10,P11,P12,P13
,P14,P15,ISHFCLK,BLANKP,BLNKPNL) = CDAL01 (FRC1,FRC0
,CF4,CF3,BPALD5,BPALD4,BPALD3,BPALD2,BPALD1
,BPALD0,GPALD5,GPALD4,GPALD3,GPALD2,GPALD1,GPALD0
,RPALD5,RPALD4,RPALD3,RPALD2,RPALD1,RPALD0,XR51D7
,SOFF,PLASMA,XR54D0,PRIMN3,PRIMN2,PRIMN1,PRIMN0
,PRIMM3,PRIMM2,PRIMM1,PRIMM0,CF2,CF1,CF0
,PSKEW2,PSKEW1,PSKEW0,ATTA5,MCP1,MCP0,ATT30Q5
,PWM1,PWM0,CD1,CD0,D3A401,NRESET2,DSPEN
,D2H801,C3A10Q,TEXTSHIFT,ATT30Q0N,NT108,VERCNT0,DCLK
,SMN,DCK2DIV,NC/0/) \$
RB770(IBPAL5,) = TLCHT (BPAL5,NC/0/) \$
RB769(IBPAL4,) = TLCHT (BPAL4,NC/0/) \$

RB768(IBPAL3,) = TLCHT (BPAL3,NC/0/) \$
 RB767(IBPAL2,) = TLCHT (BPAL2,NC/0/) \$
 RB766(IBPAL1,) = TLCHT (BPAL1,NC/0/) \$
 RB765(IBPAL0,) = TLCHT (BPAL0,NC/0/) \$
 RB764(IGPAL5,) = TLCHT (GPAL5,NC/0/) \$
 RB763(IGPAL4,) = TLCHT (GPAL4,NC/0/) \$
 RB762(IGPAL3,) = TLCHT (GPAL3,NC/0/) \$
 RB761(IGPAL2,) = TLCHT (GPAL2,NC/0/) \$
 RB760(IGPAL1,) = TLCHT (GPAL1,NC/0/) \$
 RB759(IGPAL0,) = TLCHT (GPAL0,NC/0/) \$
 RB751(PNL7) = BT2 (P7,NC/0/,HIC5) \$
 RB752(PNL6) = BT2 (P6,NC/0/,HIC5) \$
 RB753(PNL5) = BT2 (P5,NC/0/,HIC5) \$
 RB754(PNL4) = BT2 (P4,NC/0/,HIC5) \$
 RB755(PNL3) = BT2 (P3,NC/0/,HIC5) \$
 RB756(PNL2) = BT2 (P2,NC/0/,HIC5) \$
 RB757(PNL1) = BT2 (P1,NC/0/,HIC5) \$
 RB758(PNL0) = BT2 (P0,NC/0/,HIC5) \$
 RB749(RPALD5,RPALD4,RPALD3,RPALD2,RPALD1,RPALD0) = PALIF
 (IPALCLK
 ,ATT30Q5,D2H801,IRPAL5,IRPAL4,IRPAL3,IRPAL2,IRPAL1
 ,IRPAL0) \$
 RB748(GPALD5,GPALD4,GPALD3,GPALD2,GPALD1,GPALD0) = PALIF
 (IPALCLK
 ,ATT30Q5,D2H801,IGPAL5,IGPAL4,IGPAL3,IGPAL2,IGPAL1
 ,IGPAL0) \$
 RB677(BPALD5,BPALD4,BPALD3,BPALD2,BPALD1,BPALD0) = PALIF
 (IPALCLK
 ,ATT30Q5,D2H801,IBPAL5,IBPAL4,IBPAL3,IBPAL2,IBPAL1
 ,IBPAL0) \$
 RB488(PALCLK,IPALCLKI,) = BD4T (DOTCLK,NC/0/,NC/1/,NC/0/
) \$
 RB21(PNL15) = BT2 (P15,NC/0/,HIC5) \$
 RB20(PNL14) = BT2 (P14,NC/0/,HIC5) \$
 RB19(PNL13) = BT2 (P13,NC/0/,HIC5) \$
 RB18(PNL12) = BT2 (P12,NC/0/,HIC5) \$
 RB17(PNL11) = BT2 (P11,NC/0/,HIC5) \$
 RB16(PNL10) = BT2 (P10,NC/0/,HIC5) \$
 RB15(PNL9) = BT2 (P9,NC/0/,HIC5) \$
 RB14(PNL8) = BT2 (P8,NC/0/,HIC5) \$
 RB13(IRPAL5,) = TLCHT (RPAL5,NC/0/) \$
 RB12(IRPAL4,) = TLCHT (RPAL4,NC/0/) \$
 RB11(IRPAL3,) = TLCHT (RPAL3,NC/0/) \$
 RB10(IRPAL2,) = TLCHT (RPAL2,NC/0/) \$
 RB9(IRPAL1,) = TLCHT (RPAL1,NC/0/) \$
 RB8(IRPAL0,) = TLCHT (RPAL0,NC/0/) \$
 RB446(NT105) = MUX21L (VBLKPSIN,NT104,DUALPNL) \$
 RB445(VBLKPSIN) = ND2 (VBLKSP,SL480) \$
 RB172(SLEEPONN) = IV (SLEEPON) \$
 RB395(NORMPINF) = NR2 (R3D708Q1,R3D709Q1) \$
 RB261(ENIOCS16) = OR2 (SLEEPON,BCS16BZ) \$
 RB260(ENVGARDY) = OR2 (SLEEPON,BVGARAZ) \$
 RB451(NT104) = ND3 (NT103,DADTSEL,SL480) \$
 RB394(TRAPEN) = IV (TRAPD) \$
 RB393(,TRAPD) = FD2 (TRAPNORM,DOTCLK,OP8A5) \$
 RB396(TRAPNORM) = NR2 (R3D708Q1,R3D709Q1) \$
 CRTID2(CRTID2Z) = ND2 (NT52,R3D714Q7) \$
 CRTID1(CRTID1Z) = NR3 (CRTID2Z,R3D77FQ0,SLEEPON) \$
 LPSTI(NLPSTB) = IVP (LPSTB) \$
 RB225(MASKL2,) = YFD2 (MASKL,ONCEPERH,NRESET) \$
 VGAFP(VGAFPZ) = IV (DSPTD2) \$
 OVMUX(ATT30Q2A) = MUX21H (ATT30Q2,R3D753Q1,R3D753Q0) \$

RB28(R3C2QA2,R3C2QA3,R3C2QA6,R3C2QA7,VERTA0,VERTA1,VERTA2
 ,VERTA3,VERTA4,VERTA5,VERTA6,VERTA7,VERRSA0,VERRSA1
 ,VERRSA2,VERRSA3,VERRSA4,VERRSA5,VERRSA6,VERRSA7,VERREA0
 ,VERREA1,VERREA2,VERREA3,VERDEA0,VERDEA1,VERDEA2,VERDEA3
 ,VERDEA4,VERDEA5,VERDEA6,VERDEA7,CRT07QA0,CRT07QA1,CRT07QA2
 ,CRT07QA5,CRT07QA6,CRT07QA7) = ALTMUX (R3C2Q2,R3C2Q3
 ,R3C2Q6,R3C2Q7
 ,R3D754Q2,R3D754Q3,R3D754Q6,R3D754Q7,VERT0,VERT1,VERT2
 ,VERT3,VERT4,VERT5,VERT6,VERT7,R3D764Q0,R3D764Q1
 ,R3D764Q2,R3D764Q3,R3D764Q4,R3D764Q5,R3D764Q6,R3D764Q7,VERRS0
 ,VERRS1,VERRS2,VERRS3,VERRS4,VERRS5,VERRS6,VERRS7
 ,R3D766Q0,R3D766Q1,R3D766Q2,R3D766Q3,R3D766Q4,R3D766Q5,R3D766Q6
 ,R3D766Q7,VERRE0,VERRE1,VERRE2,VERRE3,R3D767Q0,R3D767Q1
 ,R3D767Q2,R3D767Q3,VERDE0,VERDE1,VERDE2,VERDE3,VERDE4
 ,VERDE5,VERDE6,VERDE7,R3D768Q0,R3D768Q1,R3D768Q2,R3D768Q3
 ,R3D768Q4,R3D768Q5,R3D768Q6,R3D768Q7,CRT07Q0,CRT07Q1,CRT07Q2
 ,CRT07Q5,CRT07Q6,CRT07Q7,R3D765Q0,R3D765Q1,R3D765Q2,R3D765Q5
 ,R3D765Q6,R3D765Q7,DSPTD2) \$

R3D702(R3D702Q0,NT56,P3D702Q1,,R3D702Q2,,R3D702Q3
 ,NT57,R3D702Q4,NT58,R3D702Q5,NT59) = LDG6R (NRESET,WR3D702
 ,DATAIN00,DATAIN01,DATAIN02,DATAIN03,DATAIN04,DATAIN05) \$

PG31A1(N3D7M00,N3D7M01,N3D7M02,N3D7M03,N3D7M04,N3D7M05,N3D7M06
 ,N3D7M07) = RED8L1 (NC/0/,NC/0/,NC/0/,NC/0/,NC/0/,NC/1/
 ,NC/1/,NC/0/,ADD16,ADD17,ADD18,NBHE,PADDHI
 ,UIMIO,NT106,NC/0/,R3D702Q0,P3D702Q1,R3D702Q2,R3D702Q3
 ,R3D702Q4,R3D702Q5,NC/0/,SELATTD,NT60,NC/0/,NC/0/
 ,NC/0/,NC/0/,NC/0/,NC/0/,NC/0/,R3D708Q0,R3D708Q1
 ,R3D708Q2,NC/0/,NC/0/,NC/0/,NC/0/,NC/0/,R3D709Q0
 ,R3D709Q1,NC/0/,NC/0/,NC/0/,NC/0/,NC/0/,NC/0/
 ,R3D714Q0,R3D714Q1,R3BFQ0,R3BFQ1,R3D714Q4,R3D714Q5,R3D714Q6
 ,R3D714Q7,R3D715Q0,R3D715Q1,R3D715Q2,R3D715Q3,R3D715Q4,R3D715Q5
 ,R3D715Q6,NC/0/,EN3D700,EN3D701,EN3D702,EN3D703,EN3D708
 ,EN3D709,EN3D714,EN3D715) \$

BTREG(PRIMM3,PRIMM2,PRIMM1,PRIMM0,PRIMN3,PRIMN2,PRIMN1
 ,PRIMN0,CF4,CF3,CF2,CF1,CF0,PSKEW2
 ,PSKEW1,PSKEW0,BOUT0,BOUT1,BOUT2,BOUT3,BOUT4
 ,BOUT5,BOUT6,BOUT7,FRC0,FRC1,PWM1,CD0
 ,CD1,R3D750Q6,SM,DOUBLDRV,DUALPNL,DSPTD2,PLASMA
 ,MCP0,MCP1,PD640,PD720,PL200,PL350,PL400
 ,PL480,R3D753Q0,R3D753Q1,R3D754Q2,R3D754Q3,R3D754Q6,R3D754Q7
 ,TA350B0,TA350B1,TA350B2,TA350B3,TB350B0,TB350B1,TB350B2
 ,TB350B3,TB350B4,T400B0,T400B1,T400B2,T400B3,T400B4
 ,G350B0,G350B1,G350B2,G350B3,G350B4,G350B5,G350B6
 ,G400B0,G400B1,G400B2,G400B3,G400B4,G400B5,G400B6
 ,VDSA0,VDSA1,VDSA2,VDSA3,VDSA4,VDSA5,VDSA6
 ,VDSA7,VDEA0,VDEA1,VDEA2,VDEA3,VDEA4,VDEA5
 ,VDEA6,VDEA7,CLKCONT0,CLKCONT1,CLKCONT2,CLKCONT3,CLKCONT4
 ,CLKCONT5,CLKCONT6,CLKCONT7,REFINT0,REFINT1,REFINT2,REFINT3
 ,REFINT4,REFINT5,REFINT6,REFINT7,BLNKRAT0,BLNKRAT1,BLNKRAT2
 ,BLNKRAT3,BLNKRAT4,BLNKRAT5,BLNKRAT6,BLNKRAT7,R3D764Q0,R3D764Q1
 ,R3D764Q2,R3D764Q3,R3D764Q4,R3D764Q5,R3D764Q6,R3D764Q7,R3D765Q0
 ,R3D765Q1,R3D765Q2,R3D765Q5,R3D765Q6,R3D765Q7,R3D766Q0,R3D766Q1
 ,R3D766Q2,R3D766Q3,R3D766Q4,R3D766Q5,R3D766Q6,R3D766Q7,R3D767Q0
 ,R3D767Q2,R3D767Q1,R3D767Q3,R3D768Q1,R3D768Q0,R3D768Q2,R3D768Q3
 ,R3D768Q4,R3D768Q5,R3D768Q6,R3D768Q7,VDSB0,VDSB1,VDSB2
 ,VDSB3,VDSB4,VDSB5,VDSB6,VDSB7,VDEB0,VDEB1
 ,VDEB2,VDEB3,VDEB4,VDEB5,VDEB6,VDEB7,TA350B4
 ,PWM0,IBMCOMP,VDSB8,VDSB9,VDSA8,VDSA9,VDEB8
 ,VDEB9,VDEA8,VDEA9,XR51D7,SMN,XR54D0) = BTREGC01 (NRESET2
 ,N3D7WR2,R3D6Q0,R3D6Q1,R3D6Q2,R3D6Q3,R3D6Q4,R3D6Q5
 ,R3D6Q6,R3D6NQ0,R3D6NQ1,R3D6NQ2,R3D6NQ3,R3D6NQ4,R3D6NQ5
 ,R3D6NQ7,DATAIN00,DATAIN01,DATAIN02,DATAIN03,DATAIN04,DATAIN05


```

,DATAIN06,DATAIN07,NC/0/ ) $
SD704B( WR3D704 ) = ND2 ( SEL3D704,N3D7WR2 ) $
SD704( SEL3D704 ) = NR2 ( OD704A,OP7A18 ) $
SD704A( OD704A ) = ND5 ( R3D6NQ4,R3D6NQ3,R3D6Q2,R3D6NQ1
,R3D6NQ0 ) $
SD70BB( WR3D70B ) = ND2 ( SEL3D70B,N3D7WR2 ) $
SD70B( SEL3D70B ) = NR2 ( OD70BA,OP7A18 ) $
SD70BA( OD70BA ) = ND5 ( R3D6NQ4,R3D6Q3,R3D6NQ2,R3D6Q1,R3D6Q0 ) $
RB484( O3D7P7B ) = NR3 ( EXRDB7,BCRR7,BOUT7 ) $
RB481( O3D7P6B ) = NR3 ( EXRDB6,BCRR6,BOUT6 ) $
RB478( O3D7P5B ) = NR3 ( EXRDB5,BCRR5,BOUT5 ) $
RB475( O3D7P4B ) = NR3 ( EXRDB4,BCRR4,BOUT4 ) $
RB472( O3D7P3B ) = NR3 ( EXRDB3,BCRR3,BOUT3 ) $
RB469( O3D7P2B ) = NR3 ( EXRDB2,BCRR2,BOUT2 ) $
RB466( O3D7P1B ) = NR3 ( EXRDB1,BCRR1,BOUT1 ) $
RB463( O3D7P0B ) = NR3 ( EXRDB0,BCRR0,BOUT0 ) $
P13A7D( N3D7WR2 ) = B4I ( P3D7WR2 ) $
BLOCKC( E2E13Q,E2E13NQ,NT51,E3H10Q,F3E12Q,E3E12Q,F4E2Q
,D4H1Q,D3H16Q,E3G7Q,D3E15Q,E3D1701,GC256L,GCSHLD
,CRTP0D1,CRTP3D1,CRTP0D3,CRTP0D2,CRTP0D0,CRTP0D6,CRTP0D4
,CRTP1D3,CRTP3D3,CRTP3D2,CRTP3D0,CRTP2D2,CRTP2D0,CRTP1D1
,CRTP1D5,CRTP1D7,CRTP1D0,CRTP0D7,CRTP1D2,CRTP0D5,CRTP1D4
,CRTP1D6,CRTP3D7,CRTP3D4,CRTP3D6,CRTP3D5,CRTP2D4,CRTP2D7
,CRTP2D6,CRTP2D3,CRTP2D5,CRTP2D1,MRDATA7,GC07Q3,GC07Q2
,GC07Q1,GC07Q0,GCCCR3,GCCCR1,GCCCR0,GCCCR2,GCRTIPE
,MRDATA3,MRDATA1,MRDATA0,MRDATA2,MRDATA5,MRDATA6,MRDATA4
,GCRM1,GCRM0,GCSETE3,GCSETE2,GCSETE1,GCSETE0,GCSETR3
,GCSETR2,GCSETR1,GCSETR0,GC03Q4,GC03Q3,GC03Q2,GC03Q1
,GC03Q0,GCEVOD,GCWTMOD1,GCWTMOD0,MASKR7,MASKR6,MASKR5
,MASKR4,MASKR3,MASKR2,MASKR1,MASKR0,D2B1601,CPULTH
,BAROUT07,BAROUT06,BAROUT01,ENACP3,ENACP0,BAROUT04,BAROUT03
,BAROUT02,BAROUT05,ENACP1,PLACL1,PLACL0,BAROUT00,ENACP2
,PLACL2,PLACL3,M0D00,M0D01,M0D02,M0D03,M0D04
,M0D05,M0D06,M0D07,M1D00,M1D01,M1D02,M1D03
,M1D04,M1D05,M1D06,M1D07,M2D00,M2D01,M2D02
,M2D03,M2D04,M2D05,M2D06,M2D07,M3D00,M3D01
,M3D02,M3D03,M3D04,M3D05,M3D06,CRTLTH,M3D07
) = BLCKC ( DATAIN08,NC/1/,DATAIN09,DATAIN10,DATAIN11
,DATAIN12,DATAIN13
,DATAIN14,DATAIN15,M0DI0,M0DI1,M0DI2,M0DI3,M0DI4
,M0DI5,M0DI6,M0DI7,M1DI0,M1DI1,M1DI2,M1DI3
,M1DI4,M1DI5,M1DI6,M1DI7,M2DI0,M2DI1,M2DI2
,M2DI3,M2DI4,M2DI5,M2DI6,M2DI7,M3DI0,M3DI1
,M3DI2,M3DI3,M3DI4,M3DI5,M3DI6,M3DI7,D2D701
,REFINC,WTRGC08,WTRGC05,WTRGC03,WTRGC00,WTRGC02,WTRGC01
,WTRGC07,WTRGC04,DATAIN07,DATAIN06,C3G8Q,TESTEZ,TEST2Z
,ADR0,NJADD0,NRESET2,DATAIN00,DATAIN01,DATAIN02,DATAIN03
,DATAIN04,DATAIN05,NCRTLTH,ATT02QN2,ATT02Q2,ADR1 ) $
RB132( VBLKSP,NT103,NT52,D3C13QP,NVERDE7,LPSTB,C3G901
,BCRR0,BCRR1,BCRR2,BCRR3,BCRR4,BCRR5,BCRR6
,BCRR7,VERT7,VERT6,VERT5,VERT4,VERT3,VERT2
,VERT1,VERT0,VERRS7,VERRS6,VERRS5,VERRS4,VERRS3
,VERRS2,VERRS1,VERRS0,VERDE7,VERDE6,VERDE5,VERDE4
,VERDE3,VERDE2,VERDE1,VERDE0,VERBS7,VERBS6,VERBS5
,VERBS4,VERBS3,VERBS2,VERBS1,VERBS0,VERBE7,VERBE6
,VERBE5,VERBE4,VERBE3,VERBE2,VERBE1,VERBE0,LINEC7
,LINEC6,LINEC5,LINEC4,LINEC3,LINEC2,LINEC1,LINEC0
,ENDVSYNC,ENDVBLNK,ENDVERDE,EQVTOT,STVERB,LCOMP,LCOMP
,STVERR,POS102Q0,CRT07Q4,PROT07,VERRE3,VERRE2,VERRE1
,VERRE0,CRT07Q7,CRT07Q6,CRT07Q5,CRT07Q3,CRT07Q2,CRT07Q1
,CRT07Q0,NT45,CRTINT,ADD16NMR,XDHSYNC,DHSYNC,D3C13Q
,CRT010X,HORBE7,WCRT07P,D3F1101,NVERINC,D3A1201,NVERINE

```

```

,B4G4Q,SCROFFQ,C3D501,C3F7Q,C3E6Q,C3D701,C3B11NQ
,C3G1601,C3A701,HORRE6,HORBE6,C2B1801,C2C2201,VDSPLYEN
,C4A9Q,B4G5Q,B4E301,NT26,ENDHORRE,HORRE4,HORBE4
,HORRE7,C3A10NQ,ENDHOR,CRTRSB,D3A401,B3A1301,B3F1101
,C2B1701,C3A1401,C3G8Q,BLANK5,HORRE5,HORBE5,B3F7NQ
,B4F801,HORRS4,HORRS3,HORRS2,HORRS6,HORRS7,HORRS5
,HORRS1,HORRS0,ENDHORB,HORB5,HORB7,HORB6,HORB3
,HORB1,HORB2,HORB4,HORB0,B4B1001,HORT6,HORT4
,HORT5,HORT2,HORT1,HORT3,HORT0,HORT7,B5C501
,HORDI2,HORDI3,HORDI1,HORDI0,HORDI6,HORDI5,HORDI7
,HORDI4,HORBE2,HORBE3,HORBE0,HORBE1,HORRE3,HORRE1
,HORRE2,HORRE0,C3A10Q,EVC9,EVC8,EVC7,EVC6
,EVC5,EVC4,EVC3,EVC2,EVC1,EVC0,OB4E4Q
,C3A16NQ,VCNTRSET,HCONT7,HCONT6,HCONT5,HCONT4,HCONT3
,HCONT2,HCONT1,HCONT0,ONCEPERH,AHORB0,AHORB1,AHORB2
,AHORB3,AHORB4,AHORB5,AHORB6,AHORB7,AHORBE0,AHORBE1
,AHORBE2,AHORBE3,AHORBE4,AHORBE5,AHORBE6,AHORBE7,DCK2PNL
,AHCRN ) = CRT01 ( U4Z,NHERGR,EQL0WCLK,VERTA0,VERTA1,VERTA2
,VERTA3,VERTA4,VERTA5,VERTA6,VERTA7,VERRSA0,VERRSA1
,VERRSA2,VERRSA3,VERRSA4,VERRSA5,VERRSA6,VERRSA7,VERREA0
,VERREA1,VERREA2,VERREA3,VERDEA0,VERDEA1,VERDEA2,VERDEA3
,VERDEA4,VERDEA5,VERDEA6,VERDEA7,CRT07QA0,CRT07QA1,CRT07QA2
,CRT07QA5,CRT07QA6,CRT07QA7,NT69,NE6845,E6845,NT112
,NT113,C3G1901,VGAMOD,N3D7WR2,R3D6Q0,R3D6NQ0,R3D6Q1
,R3D6NQ1,R3D6Q2,R3D6NQ2,R3D6NQ3,R3D6NQ4,R3D6Q5,R3D6Q6
,R3D6Q7,TEST1Z,WCRTC15,WCRTC12,WCRTC16,WCRTC10,WCRTC18
,WCRTC06,SOFF,CHRESET,DATAIN05,DATAIN04,DATAIN06,DATAIN07
,DATAIN03,DATAIN02,DATAIN01,DATAIN00,VERBS9,LINEC9,NRESET2
,TESTCZ,TESTAZ,TESTBZ,TEST0Z,ATT30Q4N,NC/1/,ATT30Q0N
,D3B1QC,TXTSHIFT,NT114,CRTAQ5,CRTAQ3,CRTAQ4N,CRTAQQ5
,CRTAQQ4,WCRTC07A,WCRT0T7,W3BD45,WCRTC02,WCRTC04,WCRTC05
,WCRTC03,WCRTC07,WCRTC00,WCRTC01,IOCMDWR,NCLRHC,NCHRCLK
,REF5PL,R3C2QA7,R3C2QA6,R3BDAQ2,CRTCM2,NCRTCM2,CHRCLK
,EWI0010N,VGAENW,C5D601,NT83,MCRT8Q5,CRTC8Q6,A3C1701
,VERCNT9,VERCNT8,VERCNT7,VERCNT6,VERCNT5,VERCNT4,VERCNT3
,VERCNT2,VERCNT1,VERCNT0,HVCVDE,DSPTD2,EQHDEE,EQHDES
,NKILL1,STRCHP,STRCHM,HSYNCPNL,ULINE,VDELN,VDEL
,DCK2DIVN,NC/0/,VPU,CVC0,CVC1,CVC2,CVC3
,CVC4,CVC5,CVC6,CVC7,CVC8,CVC9 ) $
CLKGEN( NCHRCLK,BLANKDE,PLNSHIFT,DCLK,M13CLK,D2H801,DOTCLK
,D2H1401,TXTSHIFT,D2F901,D2H13NQ,CHRCLK,BLANK1,CLKXX
) = CLKGN ( R3D705Q2,BLNKPNL,DSPTD2,NT74,R3D728Q1,NDSPEN
,ATT30Q5
,B3G11A,BLANK5,R3C2QA3,R3C2QA2,DCKN2DIV,DCK2DIVN,CC89SELN
,NPRESET,CLK0I,CLK1I,EXTOSC,D2G1401,D2F1201,SLEEPON
) $
ADRGEN( EQMAXSL,B4F1901,C4G1301,NCRTLTH,ELC4,ELC3,ELC2
,ELC1,ELC0,CRTC8Q4,CRTC8Q3,CRTC8Q2,CRTC8Q1,CRTC8Q0
,CURST5,CURST4,CURST3,CURST2,CURST1,CURST0,UNDER6
,UNDER5,UNDER4,UNDER3,UNDER2,UNDER1,UNDER0,NUNDER6
,CURSK1,CURSK0,CURSE4,CURSE3,CURSE2,CURSE1,CURSE0
,CRTC8Q6,CRTC8Q5,CURADD07,CURADD06,CURADD05,CURADD04,CURADD03
,CURADD02,CURADD01,CURADD00,CURADD15,CURADD14,CURADD13,CURADD12
,CURADD11,CURADD10,CURADD09,CURADD08,OFFSET7,OFFSET6,OFFSET5
,OFFSET4,OFFSET3,OFFSET2,OFFSET1,OFFSET0,STADDQ15,STADDQ14
,STADDQ13,STADDQ12,STADDQ11,STADDQ10,STADDQ09,STADDQ08,STADDQ07
,STADDQ06,STADDQ05,STADDQ04,STADDQ03,STADDQ02,STADDQ01,STADDQ00
,NT46,VERBS9,LINEC9,MAXSL4,MAXSL3,MAXSL2,MAXSL1
,MAXSL0,NRFAMX,B3G701,NT49,ACCLA,C3C1101,D3F1601
,D3A1101,EQCURAD,C5D601,NEQMAXSL,A3C1701,NT101,NT100
,NT99,NT98,NT97,NT96,NT95,NT94,NT93
,NT92,NT91,NT90,NT89,NT88,NT87,NT86

```

```

, EXRDB0, EXRDB1, EXRDB2, EXRDB3, EXRDB4, EXRDB5, EXRDB6
, EXRDB7, C3G1901, STLN15, STLN14, STLN13, STLN12, STLN11
, STLN10, STLN9, STLN8, STLN7, STLN6, STLN5, STLN4
, STLN3, STLN2, STLN1, STLN0, D5H601, AOFSETZ, OFFSETS7
, OFFSETS6, OFFSETS5, OFFSETS4, OFFSETS3, OFFSETS2, OFFSETS1, OFFSETS0
, EDAD15, EDAD14, EDAD13, EDAD12, EDAD11, EDAD10, EDAD9
, EDAD8, EDAD7, EDAD6, EDAD5, EDAD4, EDAD3, EDAD2
, EDAD1, EDAD0, FIX1Z, C3C8Q, C3G1801, C3F17Q, C4F1Q
) = ADRGN ( NCHRCLK, D2H801, NT10, CRTLTH, B4B1001, CHAN, B4E301
, B3F1101, C3G1601, C3B11NQ, CHRCLK, D2D12NQ, D2E801, NT48
, TESTFZ, LCOMP, D2D2NQ, C3A701, D2H13NQ, TEST4Z, ADD16NMR
, B3F7NQ, C4A9Q, C3A10NQ, CRTCM3, C3A1401, NRESET2, WCRTC08
, WCRTC0B, WCRTC0A, WCRTC0F, WCRTC0D, WCRTC0C, WCRTC0E, NT110
, NT111, WCRTC14, WCRTC13, DATAIN00, DATAIN01, DATAIN02, DATAIN03
, DATAIN07, DATAIN06, DATAIN04, DATAIN05, NC/0/, NC/1/, E6845
, VGAMODO, N3D7WR2, R3D6NQ0, R3D6Q0, R3D6NQ1, R3D6Q1, R3D6Q2
, R3D6Q3, R3D6NQ4, R3D6Q4, R3D6NQ5, R3D6NQ6, R3D6NQ7, C3G901
, ADRCNT15, ADRCNT13, ADRCNT12, ADRCNT11, ADRCNT10, ADRCNT09, ADRCNT08
, ADRCNT07, ADRCNT06, ADRCNT05, ADRCNT04, ADRCNT03, ADRCNT02, ADRCNT01
, ADRCNT00, ROWCNT0, ROWCNT1, ROWCNT2, ROWCNT3, ROWCNT4, UACCLA
, CURDSP ) $
RB392( TESTFZ, TEST4Z, TEST0Z, TESTBZ, TESTAZ, TESTEZ, TESTCZ
, TEST2Z, TEST1Z, TEST3Z ) = TEST5 ( NT77, NC/0/, NT82, R3D77FQ2
, R3D77FQ3, R3D77FQ4, NT80, R3D77FQ5, NT81 ) $
BLOCKB( ATT02QN1, F1B1501, ADR0, BA4I, AA4I, BA6I, AA6I
, BA3I, AA3I, BA0I, AA0I, BA2I, AA2I, BA5I
, AA5I, BA1I, AA1I, BA7I, AA7I, ATT02QN2, ATT02Q2
, ADR1, SEQ2Q1, SEQ3Q1, ATT02Q0, SEQ3Q3, SEQ2Q3, SEQ3Q4
, SEQ3Q5, F2C901, F2D401, F2D501, F2D601, SEQ3Q2, ATT02Q1
, SEQ2Q2, SEQ2Q0, SEQ3Q0, SEQ2QN0, SEQ2QN2, SEQ2QN1, SEQ2QN3
) = BLCKB ( NADDR16, MAK17, R3D704Q2, NT53, FCAS1, FCAS3, B3A1301
, NJADD0, NRESET, DATAIN00, DATAIN01, DATAIN02, DATAIN03, DATAIN04
, DATAIN05, D3F1601R, ADRCNT14, ADRCNT11, ADRCNT10, ADRCNT09, ADRCNT08
, ADRCNT01, ADRCNT04, ADRCNT03, ADRCNT02, ADRCNT13, ADRCNT15, ADRCNT00
, ADRCNT12, ADRCNT07, ADRCNT06, ADRCNT05, NT50, NUNDER6, UNDER6
, ROWCNT0, ROWCNT1, ROWCNT2, ROWCNT3, ROWCNT4, CRTLTH, CRTCM5
, CRTCM1P, CRTCM0P, NAMXCPU, CRTCM6, ADDR11, ADDR04, E3F1201
, D2E901, ADMUXCPU, NT9, E3A1401, D3E15Q, NAMXGR, ADDR13
, ADDR06, E3G7Q, ADDR10, ADDR03, D3H16Q, ADDR14, ADDR09
, ADDR02, D4H1Q, ADDR12, ADDR05, F4E2Q, E3E12Q, ADDR08
, F3E12Q, F1B1001, ADDR07, E3H10Q, ADDR01, GC06Q1, NADDR01
, NT51, R3C2Q5, JADD0, E2G901, E2E13NQ, E2E13Q, WTRSEQ03
, TEST3Z, NCRTCM6, F1B701, ADDR16, WTRSEQ04, WTRSEQ02 ) $
VIDEO( DSPEN, NT108, CRTVD70, CRTVD60, CRTVD50, CRTVD40, CRTVD30
, CRTVD20, CRTVD10, CRTVD00, NATVMX0, NDSPEN, PRAM5, PRAM4
, PRAM3, PRAM2, PRAM1, PRAM0, DPGRP1, DPGRP0, ATT34Q3
, ATT34Q2, ATT34Q1, ATT34Q0, ATT31Q7, ATT31Q6, ATT31Q5, ATT31Q4
, ATT31Q3, ATT31Q2, ATT31Q1, ATT31Q0, PRAMSAB, PRAMSBC, TXTSHO
, PELP30, PELP10, PELP02, PELP00, E5B1Q, E5D2Q, D3B1QC
, SCOLSEL, ATT30Q5, ATT30Q4, ATT30Q3, ATT30Q2, ATT30Q1, ATT30Q0
, ATT30Q4N, ATTVMX1, ATTVMX0, ATTCPE3, ATTCPE2, ATTCPE1, ATTCPE0
, ATT33Q3, ATT33Q2, ATT33Q1, ATT33Q0, C1F1201, C1G1201, PELP1D
, PL1SHO, PELPI2, PL2SHO, PELP3D, PL3SHO, PELP0D, PL0SHO
, ATT30Q0N, D3B10Q, D3B11Q ) = VIDE01 ( BLANKP, NT105, CC89SELN
, VPDISP0
, CSRBLINK, ATRBLINK, ATT30Q2A, BLANK1, R3D728Q2, R3D72BQ0, R3D72BQ1
, R3D72BQ2, R3D72BQ3, R3D72BQ4, R3D72BQ5, R3D72BQ6, R3D72BQ7, CGASL1
, CGASL1N, CGASL2N, DATAIN00, DATAIN01, DATAIN02, DATAIN03, M13CLK
, WTRATT31, WTRATT34, DATAIN07, DATAIN06, DCLK, PRAMCL, DATAIN04
, DATAIN05, NC/0/, C3F7Q, C3G8Q, ATTA5N, D3A401, ATTA5
, ATTA1, ATTA0, ATTA3, ATTA2, CRTLTH, PLNSHIFT, CRTP2D1
, CRTP2D5, CRTP2D3, CRTP2D6, CRTP2D7, CRTP2D4, CRTP3D5, CRTP3D6

```

, CRTP3D4, CRTP3D7, CRTP1D6, CRTP1D4, CRTP0D5, CRTP1D2, CRTP0D7
, CRTP1D0, CRTP1D7, CRTP1D5, CRTP1D1, CRTP2D0, CRTP2D2, CRTP3D0
, CRTP3D2, CRTP3D3, CRTP1D3, CRTP0D4, CRTP0D6, CRTP0D0, CRTP0D2
, CRTP0D3, CRTP3D1, CRTP0D1, TXTSHIFT, NC/1/, ATT02Q2, GCSHLD
, GC256L, C3E6Q, D3F1101, D3C13Q, E3D1701, WTRATT30, WTRATT33
, WTRATT12, R3D9Q4, R3D9Q5, R3B8Q2, R3D9Q3, R3D9Q2, R3D9Q1
, R3D9Q0, TEXT, CHAN, EMBLK, NHERGR, STP348, DSPTD2
) \$

BLOCKD(IOC11, IOC10, IOC01, IOC00, SHIFT4, SAIFT2Z, OCC89SEL
, SLEEPON, ODCK2DIV, D2D701, SCROFF, D2F1201, D2G1401, NPRESET
, DCK2DIVN, D2D12NQ, D2E801, NT48, D2D2NQ, BDOUT45, BDOUT44
, NAMXCPU, NRAMWR, NVGARDY, E3F1201, D2E901, SAIFT2, NAMXGR
, NT85, E2G901, CC89SEL, NT84, E3A1401, NT9, ADMUXCPU
, DCKN2DIV, NCAS, NRAS11, NRAS00, NRAS10, NRAS01, ERMDRVZ
, ERMCONZ, SECBYTE, FCAS1, FCAS3) = BLCKD (R3D704Q3, SLEEPEN
, REFINCSL
, DCK2DIV, TEXT, R3D708Q0, NT61, R3D709Q0, NT62, CC89SELN
, F2D401, SEQ2QN3, F2D601, SEQ2QN1, F2D501, SEQ2QN2, F2C901
, SEQ2QN0, WRSEQ00, WTRSEQ01, SEQ3Q5, SEQ3Q4, NSEQ1, E2G701
, D2F10NQ, NT38, NT39, GC06NQ0, NRFAMX, B3G701, D2H801
, D2H1401, NT45, SCROFFQ, VDSPLYEN, TXTSHIFT, C2C2201, C3D701
, C3A701, C2B1801, DATAIN05, DATAIN04, DATAIN03, DATAIN02, DATAIN01
, DATAIN00, B3G11A, NC/1/, HERTEX, CHAN, GCAD2, NT28
, NT27, GCRTIPE, ATT02Q2, ATT02QN1, F1B1501, ADDR01, CLKXX
) \$

RB0(AA0) = BT2 (AA0I, NC/0/, HIM5C5) \$

RB1(AA1) = BT2 (AA1I, NC/0/, HIM5C5) \$

RB2(AA2) = BT2 (AA2I, NC/0/, HIM5C5) \$

RB3(AA3) = BT2 (AA3I, NC/0/, HIM5C5) \$

RB4(AA4) = BT2 (AA4I, NC/0/, HIM5C5) \$

RB5(AA5) = BT2 (AA5I, NC/0/, HIM5C5) \$

RB6(AA6) = BT2 (AA6I, NC/0/, HIM5C5) \$

RB7(AA7) = BT2 (AA7I, NC/0/, HIM5C5) \$

RB53(BA0) = BT2 (BA0I, NC/0/, HIM5C5) \$

RB54(BA1) = BT2 (BA1I, NC/0/, HIM5C5) \$

RB55(BA2) = BT2 (BA2I, NC/0/, HIM5C5) \$

RB56(BA3) = BT2 (BA3I, NC/0/, HIM5C5) \$

RB57(BA4) = BT2 (BA4I, NC/0/, HIM5C5) \$

RB58(BA5) = BT2 (BA5I, NC/0/, HIM5C5) \$

RB59(BA6) = BT2 (BA6I, NC/0/, HIM5C5) \$

RB60(BA7) = BT2 (BA7I, NC/0/, HIM5C5) \$

RB287(M0D0, M0DI0,) = BD4T (M0D00, NC/0/, IOC00, NC/0/
) \$

RB288(M0D1, M0DI1,) = BD4T (M0D01, NC/0/, IOC00, NC/0/
) \$

RB289(M0D2, M0DI2,) = BD4T (M0D02, NC/0/, IOC00, NC/0/
) \$

RB290(M0D3, M0DI3,) = BD4T (M0D03, NC/0/, IOC00, NC/0/
) \$

RB291(M0D4, M0DI4,) = BD4T (M0D04, NC/0/, IOC00, NC/0/
) \$

RB292(M0D5, M0DI5,) = BD4T (M0D05, NC/0/, IOC00, NC/0/
) \$

RB293(M0D6, M0DI6,) = BD4T (M0D06, NC/0/, IOC00, NC/0/
) \$

RB294(M0D7, M0DI7,) = BD4T (M0D07, NC/0/, IOC00, NC/0/
) \$

RB295(M1D0, M1DI0,) = BD4T (M1D00, NC/0/, IOC01, NC/0/
) \$

RB296(M1D1, M1DI1,) = BD4T (M1D01, NC/0/, IOC01, NC/0/
) \$

RB297(M1D2, M1DI2,) = BD4T (M1D02, NC/0/, IOC01, NC/0/

) \$
RB298(M1D3,M1DI3,) = BD4T (M1D03,NC/0/,IOC01,NC/0/
) \$
RB299(M1D4,M1DI4,) = BD4T (M1D04,NC/0/,IOC01,NC/0/
) \$
RB300(M1D5,M1DI5,) = BD4T (M1D05,NC/0/,IOC01,NC/0/
) \$
RB301(M1D6,M1DI6,) = BD4T (M1D06,NC/0/,IOC01,NC/0/
) \$
RB302(M1D7,M1DI7,) = BD4T (M1D07,NC/0/,IOC01,NC/0/
) \$
RB303(M2D0,M2DI0,) = BD4T (M2D00,NC/0/,IOC10,NC/0/
) \$
RB304(M2D1,M2DI1,) = BD4T (M2D01,NC/0/,IOC10,NC/0/
) \$
RB305(M2D2,M2DI2,) = BD4T (M2D02,NC/0/,IOC10,NC/0/
) \$
RB306(M2D3,M2DI3,) = BD4T (M2D03,NC/0/,IOC10,NC/0/
) \$
RB307(M2D4,M2DI4,) = BD4T (M2D04,NC/0/,IOC10,NC/0/
) \$
RB308(M2D5,M2DI5,) = BD4T (M2D05,NC/0/,IOC10,NC/0/
) \$
RB309(M2D6,M2DI6,) = BD4T (M2D06,NC/0/,IOC10,NC/0/
) \$
RB310(M2D7,M2DI7,) = BD4T (M2D07,NC/0/,IOC10,NC/0/
) \$
RB311(M3D0,M3DI0,) = BD4T (M3D00,NC/0/,IOC11,NC/0/
) \$
RB312(M3D1,M3DI1,) = BD4T (M3D01,NC/0/,IOC11,NC/0/
) \$
RB313(M3D2,M3DI2,) = BD4T (M3D02,NC/0/,IOC11,NC/0/
) \$
RB314(M3D3,M3DI3,) = BD4T (M3D03,NC/0/,IOC11,NC/0/
) \$
RB315(M3D4,M3DI4,) = BD4T (M3D04,NC/0/,IOC11,NC/0/
) \$
RB316(M3D5,M3DI5,) = BD4T (M3D05,NC/0/,IOC11,NC/0/
) \$
RB317(M3D6,M3DI6,) = BD4T (M3D06,NC/0/,IOC11,NC/0/
) \$
RB318(M3D7,M3DI7,) = BD4T (M3D07,NC/0/,IOC11,NC/0/
) \$
A2F7(RAS) = BT4 (RASGEN,NC/0/,HIM5C5) \$
D5I7(CAS3) = BT2 (NRAS11,NC/0/,HIM5C5) \$
F3F1(CAS0) = BT2 (NRAS00,NC/0/,HIM5C5) \$
F3F3(CAS2) = BT2 (NRAS10,NC/0/,HIM5C5) \$
F3F4(CAS1) = BT2 (NRAS01,NC/0/,HIM5C5) \$
RB188(ERMEN) = BT4 (ERMDRVZ,NC/0/,ERMCONZ) \$
A1F9(BLANK) = BT2 (BLANKDE,NC/0/,HIC5) \$
F2F3(SHFCLK) = BT4 (ISHFCLK,NC/0/,HIC5) \$
RB82(SLEEPENI,) = TLCHT (SLEEP,NC/0/) \$
F2F6(CLK0I,) = TLCHT (CLK0,NC/0/) \$
A5F3(VSYNC) = BT2 (VSYNCOUT,NC/0/,HIC5) \$
F3F6(HSYNC) = BT2 (HSYNCOUT,NC/0/,HIC5) \$
F4F5(VGAINI) = BT8 (MODINT,NC/0/,CRTID1Z) \$
RB482(03D7P7) = OR3 (03D7P7A,N3D7M17,N3D7M07) \$
RB483(03D7P7A) = NR3 (03D7P7B,OP13A1,NADDR00) \$
RB479(03D7P6) = OR3 (03D7P6A,N3D7M16,N3D7M06) \$
RB480(03D7P6A) = NR3 (03D7P6B,OP13A1,NADDR00) \$
RB476(03D7P5) = OR3 (03D7P5A,N3D7M15,N3D7M05) \$
RB477(03D7P5A) = NR3 (03D7P5B,OP13A1,NADDR00) \$

RB473(03D7P4) = OR3 (03D7P4A,N3D7M14,N3D7M04) \$
RB474(03D7P4A) = NR3 (03D7P4B,OP13A1,NADDR00) \$
RB470(03D7P3) = OR4 (03D7P3A,N3D7M13,N3D7M03,RD45B3) \$
RB471(03D7P3A) = NR3 (03D7P3B,OP13A1,NADDR00) \$
RB467(03D7P2) = OR4 (03D7P2A,N3D7M12,N3D7M02,RD45B2) \$
RB468(03D7P2A) = NR3 (03D7P2B,OP13A1,NADDR00) \$
RB464(03D7P1) = OR4 (03D7P1A,N3D7M11,N3D7M01,RD45B1) \$
RB465(03D7P1A) = NR3 (03D7P1B,OP13A1,NADDR00) \$
RB461(03D7P0) = OR4 (03D7P0A,N3D7M10,N3D7M00,RD45B0) \$
RB462(03D7P0A) = NR3 (03D7P0B,OP13A1,NADDR00) \$
BVGARB(,VGARDYD) = YFD2 (NC/1/,DOTCLK,NVGARDY) \$
BVGARA(BVGARAZ) = ND2 (VGARDYD,NT78) \$
C1H6(VGARDY) = BT8 (NVGARDY,ENVGARDY,NC/1/) \$
F4F3(VIDEO2) = BT2 (CRTVD20,NC/0/,HIC5) \$
F1F7(VIDEO4) = BT2 (CRTVD40,NC/0/,HIC5) \$
C1H4(VIDEO3) = BT2 (CRTVD30,NC/0/,HIC5) \$
B1H3(VIDEO5) = BT2 (CRTVD50,NC/0/,HIC5) \$
A3F5(VIDEO1) = BT2 (CRTVD10,NC/0/,HIC5) \$
A2F6(VIDEO6) = BT2 (CRTVD60,NC/0/,HIC5) \$
A2F2(VIDEO7) = BT2 (CRTVD70,NC/0/,HIC5) \$
A1F8(VIDEO0) = BT2 (CRTVD00,NC/0/,HIC5) \$
F2B82(F2B8012) = A04 (NSEQ1,CC89SEL,NT84,NSEQ0) \$
F2B81(F2B8011) = A04 (SEQ2Q0,SEQ02A0,SEQ3Q0,E2G701) \$
F2B8(F2B801) = NR2 (F2B8011,F2B8012) \$
F2A112(F2A11012) = A04 (SEQ02A0,SEQ2Q2,NSEQ1,SAIFT2) \$
F2A111(F2A11011) = A04 (SEQ3Q2,E2G701,ATT02Q1,NSEQ4) \$
F2A11(F2A1101) = NR2 (F2A11011,F2A11012) \$
E4F52(E4F5012) = A04 (E4B101,LPD05,MYS5,E4A501) \$
E4F51(E4F5011) = NR2 (LPD13,E4A601) \$
E4F5(BDOU05) = NR2 (E4F5011,E4F5012) \$
E4E22(E4E2012) = A04 (E4B101,LPD00,E4A501,MYS0) \$
E4E21(E4E2011) = NR2 (LPD08,E4A601) \$
E4E2(BDOU00) = NR2 (E4E2011,E4E2012) \$
E4D42(E4D4012) = A04 (E4B101,LPD04,MYS4,E4A501) \$
E4D41(E4D4011) = NR2 (LPD12,E4A601) \$
E4D4(BDOU04) = NR2 (E4D4011,E4D4012) \$
E4D22(E4D2012) = A04 (E4B101,LPD06,MYS6,E4A501) \$
E4D21(E4D2011) = NR2 (LPD14,E4A601) \$
E4D2(BDOU06) = NR2 (E4D2011,E4D2012) \$
E4B22(E4B2012) = A04 (E4B101,LPD01,MYS1,E4A501) \$
E4B21(E4B2011) = NR2 (LPD09,E4A601) \$
E4B2(BDOU01) = NR2 (E4B2011,E4B2012) \$
E4A12(E4A1012) = A04 (E4B101,LPD02,MYS2,E4A501) \$
E4A11(E4A1011) = NR2 (LPD10,E4A601) \$
E4A1(BDOU02) = NR2 (E4A1011,E4A1012) \$
E3H14B(OE3H14B) = IV (CRTINT) \$
E3H14A(MODINT) = MUX21L (OE3H14B,CRTINT,R3D714Q7) \$
E3C52(E3C5012) = A04 (E3B801,ATT33Q0,E3C301,ATTCP00) \$
E3C51(E3C5011) = NR2 (ATT34Q0,E3A501) \$
E3C5(E3C501) = NR2 (E3C5011,E3C5012) \$
E3G32(E3G3012) = A04 (E3B801,ATT33Q3,ATTCP03,E3C301) \$
E3G31(E3G3011) = NR2 (ATT34Q3,E3A501) \$
E3G3(E3G301) = NR2 (E3G3011,E3G3012) \$
E3B22(E3B2012) = A04 (E3B601,ATT30Q4,PRAM5,E3E901) \$
E3B2A(E3B2011) = A04 (ATT31Q5,E3D601,ATTVMX1,E3C301) \$
E3B2(E3B201) = NR2 (E3B2011,E3B2012) \$
E3F32(E3F3012) = A07 (PRAM4,E3E901,E3B601) \$
E3F31(E3F3011) = A04 (ATT31Q4,E3D601,ATTVMX0,E3C301) \$
E3F3(E3F301) = NR2 (E3F3011,E3F3012) \$
E3E202(E3E20012) = A04 (E4B101,LPD03,MYS3,E4A501) \$
E3E201(E3E20011) = NR2 (LPD11,E4A601) \$
E3E20(BDOU03) = NR2 (E3E20011,E3E20012) \$

E3B212(E3B21012) = A04 (E4B101,LPD07,MYS7,E4A501) \$
E3B211(E3B21011) = NR2 (LPD15,E4A601) \$
E3B21(BDOUT07) = NR2 (E3B21011,E3B21012) \$
E2E142(E2E14012) = A07 (EWIO3C2,ISENSE,NIO3CC) \$
E2E141(E2E14011) = A07 (DPGRP1,NIO3BDA,NIO3CA) \$
E2E14(E2E1401) = NR2 (E2E14011,E2E14012) \$
E2C102(E2C10012) = A07 (NIO3CC,R3C2Q3,EWIO3C2) \$
RB74(EMXD3N) = A02 (D3A401,NT66,R3D714Q5,DPGRP0) \$
BEMXD3(EMXD3) = IV (EMXD3N) \$
E2C101(E2C10011) = A04 (R3BDAQ2,NIO3CA,EMXD3,NIO3BDA) \$
E2C10(E2C1001) = NR2 (E2C10011,E2C10012) \$
E2C122(E2C12012) = A04 (NIO3CC,R3C2Q7,D3A1201,EWIO3C2) \$
E2C121(E2C12011) = A07 (VSYNBIT,NIO3BDA,NIO3CA) \$
E2C12C(VSYNBIT) = NR2 (NT67,C4A9Q) \$
E2C12(E2C1201) = NR2 (E2C12011,E2C12012) \$
E2A132(E2A13012) = A07 (NIO3CC,R3C2Q6,EWIO3C2) \$
E2A131(E2A13011) = ND2 (NIO3CA,NIO3BDA) \$
E2A13(E2A1301) = NR2 (E2A13011,E2A13012) \$
E2B102(E2B10012) = A07 (NIO3CC,R3C2Q2,EWIO3C2) \$
E2B101(E2B10011) = IV (NIO3CA) \$
E2B10(E2B1001) = NR2 (E2B10011,E2B10012) \$
E2H92(E2H9012) = A04 (SEQ02A0,SEQ2Q3,NSEQ1,DCK2DIV) \$
E2H91(E2H9011) = A04 (SEQ3Q3,E2G701,ATT02Q2,NSEQ4) \$
E2H9(E2H901) = NR2 (E2H9011,E2H9012) \$
E2F52(E2F5012) = A04 (NSEQ4,ATT02Q0,NT85,NSEQ0) \$
E2F51(E2F5011) = A04 (SEQ2Q1,SEQ02A0,SEQ3Q1,E2G701) \$
E2F5(E2F501) = NR2 (E2F5011,E2F5012) \$
E2A10A(D2B16MOD) = IV (NT41) \$
E2A10B(NT41) = A02 (NT65,D2B1601,R3D714Q4,DHSYNC) \$
E2A102(E2A10012) = A04 (NIO3BDA,D2B16MOD,R3BDAQ0,NIO3CA) \$
E2A101(E2A10011) = A04 (DACST0,NIO3C7,POS102Q0,EWIO010N) \$
E2A10(E2A1001) = NR2P (E2A10011,E2A10012) \$
E1F112(E1F11012) = A07 (NIO3CC,R3C2Q5,EWIO3C2) \$
E1F111(E1F11011) = A07 (DPGRP0,NIO3BDA,NIO3CA) \$
E1F11(E1F1101) = NR2 (E1F11011,E1F11012) \$
D3F62(D3F6012) = A04 (E3B801,ATT33Q1,E3C301,ATTCPE1) \$
D3F61(D3F6011) = NR2 (ATT34Q1,E3A501) \$
D3F6(D3F601) = NR2 (D3F6011,D3F6012) \$
D3G72(D3G7012) = A04 (E3B801,ATT33Q2,ATTCPE2,E3C301) \$
D3G71(D3G7011) = NR2 (ATT34Q2,E3A501) \$
D3G7(D3G701) = NR2 (D3G7011,D3G7012) \$
B1G102(B1G10012) = A04 (NGC01A0,GCSETE2,GCSETR2,GC00A0N) \$
B1G101(B1G10011) = A04 (GCCCR2,NGC02A0,GC03Q2,GC03A0N) \$
B1G10(B1G1001) = NR2 (B1G10011,B1G10012) \$
C2B32(C2B3012) = A04 (NGC07A0,GC07Q2,NGC06A0,GC06Q2) \$
C2B31(C2B3011) = NR2 (MASKR2,NGC08A0) \$
C2B3(C2B301) = NR2 (C2B3011,C2B3012) \$
C2D42(C2D4012) = A04 (NGC05A0,GCWTMOD1,GCRM1,NGC04A0) \$
C2D41(C2D4011) = A04 (GC06Q1,NGC06A0,GC07Q1,NGC07A0) \$
C2D4(C2D401) = NR2 (C2D4011,C2D4012) \$
C2C52(C2C5012) = A04 (NGC06A0,GC06Q3,GCRTIPE,NGC05A0) \$
C2C51(C2C5011) = A04 (GC07Q3,NGC07A0,MASKR3,NGC08A0) \$
C2C5(C2C501) = NR2 (C2C5011,C2C5012) \$
C2B42(C2B4012) = A04 (NGC05A0,GCWTMOD0,GCRM0,NGC04A0) \$
C2B41(C2B4011) = A04 (GC06Q0,NGC06A0,GC07Q0,NGC07A0) \$
C2B4(C2B401) = NR2 (C2B4011,C2B4012) \$
B2G12(B2G1012) = A04 (NGC01A0,GCSETE0,GC00A0N,GCSETR0) \$
B2G11(B2G1011) = A04 (GCCCR0,NGC02A0,GC03Q0,GC03A0N) \$
B2G1(B2G101) = NR2 (B2G1011,B2G1012) \$
B1E112(B1E11012) = A04 (NGC01A0,GCSETE1,GCSETR1,GC00A0N) \$
B1E111(B1E11011) = A04 (GCCCR1,NGC02A0,GC03Q1,GC03A0N) \$
B1E11(B1E1101) = NR2 (B1E11011,B1E11012) \$

B1G112(B1G11012) = A04 (NGC01A0,GCSETE3,GC00A0N,GCSETR3) \$
 B1G111(B1G11011) = A04 (GCCCR3,NGC02A0,GC03Q3,GC03A0N) \$
 B1G11(B1G1101) = NR2 (B1G11011,B1G11012) \$
 E3D42(E3D4012) = NR2 (ATT31Q0,E3D601) \$
 E3D41(E3D4011) = A04 (E3E901,PRAM0,ATT30Q0,E3B601) \$
 E3D4(E3D401) = NR2 (E3D4011,E3D4012) \$
 E3F42(E3F4012) = NR2 (ATT31Q3,E3D601) \$
 E3F41(E3F4011) = A04 (E3E901,PRAM3,ATT30Q3,E3B601) \$
 E3F4(E3F401) = NR2 (E3F4011,E3F4012) \$
 E1D122(E1D12012) = IV (E2A1001) \$
 E1D121(E1D12011) = A07 (R3C2Q0,NIO3CC,EWIO3C2) \$
 E1D12(BDOUT20) = NR2 (E1D12011,E1D12012) \$
 D3G62(D3G6012) = NR2 (ATT31Q1,E3D601) \$
 D3G61(D3G6011) = A04 (E3E901,PRAM1,ATT30Q1,E3B601) \$
 D3G6(D3G601) = NR2 (D3G6011,D3G6012) \$
 D3H62(D3H6012) = NR2 (ATT31Q2,E3D601) \$
 D3H61(D3H6011) = A04 (E3E901,PRAM2,ATT30Q2,E3B601) \$
 D3H6(D3H601) = NR2 (D3H6011,D3H6012) \$
 C2A3N(C2A301) = IV (C2A301N) \$
 C2A3(C2A301N) = NR2 (NGC08A0,MASKR0) \$
 C2A2N(C2A201) = IV (C2A201N) \$
 C2A2(C2A201N) = NR2 (MASKR1,NGC08A0) \$
 D2G22(D2G2012) = NR2 (NVACCMEM,OP22A7) \$
 D2G21A(OD2G21A) = AN2 (EWIO010N,NIOREG) \$
 D2G21(D2G2011) = NR2 (OD2G21A,IOCMDRD) \$
 D2G2(NMEMIORD) = NR2 (D2G2011,D2G2012) \$
 E2A20N(BDOUT37) = IV (E2A2001N) \$
 E2A20(E2A2001N) = A02 (D3G101,ATT31Q7,D2H2001,SCOLSEL) \$
 D3H1N(BDOUT36) = IV (D3H101N) \$
 D3H1(D3H101N) = A02 (D3G101,ATT31Q6,D2H2001,ATT30Q5) \$
 C2E11(C2E1101N) = A02 (GC08A0,MASKR6,GC05A0,GC256L) \$
 C2C11N(BDOUT14) = IV (C2C1101N) \$
 C2C11(C2C1101N) = A02 (GC08A0,MASKR4,C2B1101,NGC08A0) \$
 C2B11N(C2B1101) = IV (C2B1101N) \$
 C2B11(C2B1101N) = A02 (GC05A0,GCEVOD,GC03Q4,GC03A0) \$
 C2C13(C2C1301N) = ND2 (GC08A0,MASKR7) \$
 C2E16(BDOUT16) = NR2 (NADDR00,C2E1101N) \$
 C2D9(BDOUT15) = NR2 (NADDR00,C2D801N) \$
 C2D8(C2D801N) = A02 (GC08A0,MASKR5,GCSHLD,GC05A0) \$
 C2B13(BDOUT17) = NR2 (NADDR00,C2C1301N) \$
 C2B12N(BDOUT12) = IV (C2B1201N) \$
 C2B12(C2B1201N) = ND2 (ADDR00,C2C401) \$
 C2A10N(BDOUT13) = IV (C2A1001N) \$
 C2A10(C2A1001N) = ND2 (ADDR00,C2C601) \$
 C2A8N(BDOUT11) = IV (C2A801N) \$
 C2A8(C2A801N) = ND2 (ADDR00,C2A401) \$
 C2A7N(BDOUT10) = IV (C2A701N) \$
 C2A7(C2A701N) = ND2 (ADDR00,C2A501) \$
 E2A1N(NIOREG1) = IV (E2A101N) \$
 E2A1(E2A101N) = ND8 (EI03BD45,EWIO3C2,NIO3C45,NIO3BDA
 ,NIO3C01,NIO3C7
 ,NIO3CC,NIO3CA) \$
 F2E2N(NT116) = IV (NT117) \$
 F2E2(NT117) = ND6 (NIO3BDA,NIO3C7,EWIO3C2,EWIO010N,NIO3CA
 ,NIO3CC
) \$
 RB146(REF5PL,) = LD2 (DATAIN06,NT113) \$
 RB154(CRTCM0,,CRTCM1,,CRTCM3,,CRTCM5
 ,,CRTCM6,NCRTCM6) = LDG5 (NT114,DATAIN00,DATAIN01,DATAIN03
 ,DATAIN05,DATAIN06) \$
 E3E5B(CRTCM1P) = OR2 (TEXT,CRTCM1) \$
 E3E5A(CRTCM0P) = OR2 (TEXT,CRTCM0) \$

E3E5(BDOU30) = AN2 (E3C501,E3D401) \$
E3G2(BDOU33) = AN2 (E3G301,E3F401) \$
E3F2(BDOU35) = AN3 (E3B801,E3A501,E3B201) \$
E3E3(BDOU34) = AN3 (E3F301,E3B801,E3A501) \$
E2D1(BDOU21) = AN2 (EWIO010N,E2E101) \$
E2D15(BDOU24) = AN3 (NIO3C7,EWIO010N,E2E1401) \$
E2D10(BDOU23) = AN3 (EWIO010N,E2C1001,NIO3C7) \$
E2B11(BDOU27) = AN3 (NIO3C7,EWIO010N,E2C1201) \$
E2A16(BDOU26) = AN3 (E2A1301,EWIO010N,NIO3C7) \$
E2A15(BDOU22) = AN3 (E2B1001,EWIO010N,NIO3C7) \$
E1F13(BDOU25) = AN3 (EWIO010N,NIO3C7,E1F1101) \$
D5D10(C5F301) = IVP (CRTAQ1N) \$
D4B7(D5A101) = IVP (CRTAQ0N) \$
D3E5(BDOU31) = AN2 (D3G601,D3F601) \$
D3G1(D3G101) = IVP (E3D601) \$
D3H5(BDOU32) = AN2 (D3H601,D3G701) \$
D2F10(,D2F10NQ) = FD3 (NC/1/,NCRTLTH,D2F901,NPRESET) \$
D2H20(D2H2001) = IVP (E3B601) \$
C2C4(C2C401) = AN4 (C2B301,NGC05A0,B1G1001,NGC04A0) \$
C2E5(NGC06A0) = IVP (GC06A0) \$
C2D10(NGC08A0) = IVP (GC08A0) \$
C2D7(NGC04A0) = IVP (GC04A0) \$
C2D1(NGC05A0) = IVP (GC05A0) \$
C2C3(NGC01A0) = IVP (GC01A0) \$
C2B6(NGC07A0) = IVP (GC07A0) \$
C2A5(C2A501) = AN3 (C2B401,B2G101,C2A301) \$
C2A4(C2A401) = AN3 (C2A201,B1E1101,C2D401) \$
P34A22(OP34A22) = A07 (VAL16REG,OP34A21,OP34A4) \$
P34A21(OP34A21) = NR3 (AMODE01,NIO3C01,PADDR00) \$
P34A9(OP34A9) = ND3 (VAL16REG,IBHE,OP34A11) \$
P34A8(OP34A8) = ND2 (PNADDR00,OP34A9) \$
P34A11(OP34A11) = IV (IOCMRD) \$
P34A10(ADDR00) = B5I (NADDR00) \$
P34A7(NADDR00) = B5I (OP34A8) \$
P34A6(OP34A6,OP34A5) = IVDA (OP34A22) \$
P34A4(OP34A4) = ND2 (PADDR00,NIBHE) \$
B1G14(NGC02A0) = IVP (GC02A0) \$
E1G10(E2E101) = ORA25 (R3C2Q1,NIO3CC,NIO3CA,R3BDAQ1
,DACST1,NIO3C7
,NC/0/,NIO3BDA,EWIO3C2,NC/0/) \$
C3D15H(MYS5,MYS1,MYS0,MYS4,MYS7,MYS3,MYS2
,MYS6) = MUX881 (D5A101,C5F301,CRTAQQ2,B4B301,B3F1301,C4E201
,C3F1501,B4G101,C4F201,D4A601,C4F501,B5A501,B5B701
,B5G1001,C5G901,C5G701,C5B401,C4G1701,C5F201,B5C301
,B5D1001,B5E601,C5D101,C5D901,C5B501,C4D1401,C4E1401
,B4C1301,C4A701,B4D901,C4D701,C4D901,C4C1001,D4A1001
,C4G1001,A4C101,C4A201,C4A301,C4C501,C4B401,C4C701
,C4A501,C4A401,A5B101,B5B401,B5F501,C5B201,C5A501
,B5F201,C4C1401,B5G101,A5C601,A5D901,B5D801,C5C501
,C5C1101,B5E301,C4A1101,B4G1401,B4A101,B4D101,B4F101
,C3F1401,C3E1401,C3D1201,C3E1501,C3D1601) \$
C3D15A(B4B301,B5A501,B5C301,B4C1301,A4C101,A5B101,A5C601
,B4A101) = MUX851 (HORT0,CRTC8Q0,VERRS0,BAROUT00,LINEC0,HORT1
,CRTC8Q1,VERRS1,BAROUT01,LINEC1,HORT4,CRTC8Q4,VERRS4
,BAROUT04,LINEC4,HORT5,CRTC8Q5,VERRS5,BAROUT05,LINEC5
,HORT6,CRTC8Q6,VERRS6,BAROUT06,LINEC6,HORT2,CRTC8Q2
,VERRS2,BAROUT02,LINEC2,HORT3,CRTC8Q3,VERRS3,BAROUT03
,LINEC3,HORT7,CRT00T7,CRT08TF,NC/0/,VERRS7,CRT10T7
,CRT20T7,BAROUT07,CRT18TF,LINEC7) \$
C3D15B(C4F501,C5F201,C4E1401,C4G1001,C4A401,B5G101,B4G1401
,C3D1601) = MUX851 (CRT07Q0,CURADD00,CRTCM0,ROWCNT0
,GC00A0,CRT07Q1

```

, CURADD01, CRTCM1, ROWCNT1, GC01A0, CRT07Q4, CURADD04, NC/0/
, ROWCNT4, GC04A0, CRT07Q5, CURADD05, CRTCM5, PLNSHIFT, GC05A0
, CRT07Q6, CURADD06, CRTCM6, NAMXCPU, GC06A0, CRT07Q2, CURADD02
, CRTCM2, ROWCNT2, GC02A0, CRT07Q3, CURADD03, CRTCM3, ROWCNT3
, GC03A0, CRT07Q7, CRT00T7, CRT08TF, CURADD07, CRTRSB, CRT10T7
, CRT20T7, D2H1401, CRT18TF, GC07A0 ) $
C3D15C( D4A601, C4G1701, C4D1401, D4A1001, C4A501, C4C1401, C4A1101
, C3E1501 ) = MUX851 ( VERT0, CURADD08, VERBE0, ATTA0, NEQMAXSL
, VERT1
, CURADD09, VERBE1, ATTA1, GC08A0, VERT4, CURADD12, VERBE4
, ATTA4, PL0SHO, VERT5, CURADD13, VERBE5, ATTA5, PL1SHO
, VERT6, CURADD14, VERBE6, CRTLTH, PL2SHO, VERT2, CURADD10
, VERBE2, ATTA2, NIO3CEFM, VERT3, CURADD11, VERBE3, ATTA3
, NC/0/, VERT7, CRT00T7, CRT08TF, CURADD15, VERBE7, CRT10T7
, CRT20T7, CPULTH, CRT18TF, PL3SHO ) $
C3D15D( C4F201, C5B401, C5B501, C4C1001, C4C701, B5F201, B5E301
, C3D1201 ) = MUX851 ( HORRE0, STADDQ00, VERBS0, BLANK5
, B4B1001, HORRE1
, STADDQ01, VERBS1, C3F7Q, B5C501, HORRE4, STADDQ04, VERBS4
, C3G8Q, ENDHORB, HORRE5, STADDQ05, VERBS5, D3B11Q, NT26
, HORRE6, STADDQ06, VERBS6, D3B10Q, B4F1901, HORRE2, STADDQ02
, VERBS2, D3A401, B4F801, HORRE3, STADDQ03, VERBS3, D2B1601
, ENDHORRE, HORRE7, CRT00T7, CRT08TF, STADDQ07, VERBS7, CRT10T7
, CRT20T7, ATTA5N, CRT18TF, C4G1301 ) $
C3D15E( C3F1501, C5G901, C5D101, C4D701, C4C501, C5B201, C5C501
, C3F1401 ) = MUX851 ( HORBE0, CURSE0, OFFSET0, PELP00, NT94, HORBE1
, CURSE1, OFFSET1, PELP10, NT95, HORBE4, CURSE4, OFFSET4
, PELP0D, NT98, HORBE5, CURSK0, OFFSET5, PELP1D, NT99
, HORBE6, CURSK1, OFFSET6, PELPI2, NT100, HORBE2, CURSE2
, OFFSET2, PELP02, NT96, HORBE3, CURSE3, OFFSET3, PELP30
, NT97, HORBE7, CRT00T7, CRT08TF, NC/0/, OFFSET7, CRT10T7
, CRT20T7, PELP3D, CRT18TF, NT101 ) $
C3D15F( C4E201, B5G1001, B5E601, B4D901, C4A301, B5F501, B5D801
, B4F101 ) = MUX851 ( HORB0, CURST0, VERDE0, MRDATA0, NT86, HORB1
, CURST1, VERDE1, MRDATA1, NT87, HORB4, CURST4, VERDE4
, MRDATA4, NT90, HORB5, CURST5, VERDE5, MRDATA5, NT91
, HORB6, NC/0/, VERDE6, MRDATA6, NT92, HORB2, CURST2
, VERDE2, MRDATA2, NT88, HORB3, CURST3, VERDE3, MRDATA3
, NT89, HORB7, CRT00T7, CRT08TF, NC/0/, VERDE7, CRT10T7
, CRT20T7, MRDATA7, CRT18TF, NT93 ) $
C3D15G( B3F1301, B5B701, B5D1001, C4A701, C4A201, B5B401, A5D901
, B4D101 ) = MUX851 ( HORDI0, MAXSL0, VERRE0, PLACL0, B4G5Q, HORDI1
, MAXSL1, VERRE1, PLACL1, B4G4Q, HORDI4, MAXSL4, NVERINC
, ENACP0, C3C1101, HORDI5, LINEC9, NVERINE, ENACP1, ACCLA
, HORDI6, VERBS9, REF5PL, ENACP2, NCHRCLK, HORDI2, MAXSL2
, VERRE2, PLACL2, D3A1101, HORDI3, MAXSL3, VERRE3, PLACL3
, C5D601, HORDI7, CRT00T7, CRT08TF, NT46, PROT07, CRT10T7
, CRT20T7, ENACP3, CRT18TF, C3D701 ) $
E2F10A( DATAOUT0, DATAOUT1, DATAOUT2, DATAOUT3, DATAOUT4, DATAOUT5
, DATAOUT6
, DATAOUT7 ) = RED8L1 ( R3D6Q0, R3D6Q1, R3D6Q2, R3D6Q3, R3D6Q4
, R3D6Q5
, R3D6Q6, R3D6Q7, D5A101, C5F301, CRTAQQ2, CRTAQQ3, CRTAQQ4
, CRTAQQ5, NC/0/, NC/0/, ATTA0, ATTA1, ATTA2, ATTA3
, ATTA4, ATTA5, NC/0/, NC/0/, SEQA0, SEQA1, SEQA2
, NC/0/, NC/0/, NC/0/, NC/0/, NC/0/, GCAQ0, GCAQ1
, GCAQ2, GCAQ3, NC/0/, NC/0/, NC/0/, NC/0/, NC/0/
, NC/0/, NC/0/, NC/0/, NC/0/, NC/0/, NC/0/, NC/0/
, NC/0/, NC/0/, NC/0/, NC/0/, NC/0/, NC/0/, NC/0/
, NC/0/, NC/0/, OP13A1A, EI03BD45, NIO3C01, NIO3C45, NIO3CEF
, NC/1/, NC/1/, NC/1/ ) $

```

```

E2F10( NT17,DATAOUT9,NT16,NT12,NT15,NT13,DATAOUT8
,NT14 ) = RED8L1 ( BDOU07,BDOU01,BDOU06,BDOU02,BDOU05
,BDOU03
,BDOU00,BDOU04,BDOU17,BDOU11,BDOU16,BDOU12,BDOU15
,BDOU13,BDOU10,BDOU14,BDOU27,BDOU21,BDOU26,BDOU22
,BDOU25,BDOU23,BDOU20,BDOU24,BDOU37,BDOU31,BDOU36
,BDOU32,BDOU35,BDOU33,BDOU30,BDOU34,NC/0/,BDOU41
,NC/0/,BDOU42,BDOU45,BDOU43,BDOU40,BDOU44,R3B8Q7
,R3B8Q1,R3B8Q6,R3B8Q2,R3B8Q5,R3B8Q3,R3B8Q0,R3B8Q4
,NC/0/,R3D9Q1,NC/0/,R3D9Q2,R3D9Q5,R3D9Q3,R3D9Q0
,R3D9Q4,O3D7P7,O3D7P1,O3D7P6,O3D7P2,O3D7P5,O3D7P3
,O3D7P0,O3D7P4,EI03BD45,NIO3CEF,NT116,NIO3C01,NIO3C45
,EN3BD8,AEN3D9,OP13A1A ) $
C5F5( C4D901,C4B401,B4G101,C3E1401,C5G701,C5D901,C5C1101
,C5A501 ) = MUX851 ( HORRS5,STADDQ13,UNDER5,C1F1201
,ENDVBLNK,HORRS7
,STADDQ15,NC/0/,SELATTD,LCOMP,HORRS6,STADDQ14,UNDER6
,XTSHO,EQCURAD,HORRS4,STADDQ12,UNDER4,C1G1201,STVERB
,HORRS3,STADDQ11,UNDER3,PRAMSAB,ENDVERDE,HORRS2,STADDQ10
,UNDER2,PRAMSBC,EQVTOT,HORRS0,STADDQ08,UNDER0,E5D2Q
,STVERR,HORRS1,CRT00T7,CRT08TF,STADDQ09,UNDER1,CRT10T7
,CRT20T7,E5B1Q,CRT18TF,ENDVSYNC ) $
RD2B2( MUXREG0,MUXREG1,MUXREG2,MUXREG3,MUXREG4,MUXREG5,MUXREG6
,MUXREG7 ) = READ2I ( DATAOUT8,DATAOUT9,NT12,NT13,NT14,NT15
,NT16,NT17,DATAOUT0,DATAOUT1,DATAOUT2,DATAOUT3,DATAOUT4
,DATAOUT5,DATAOUT6,DATAOUT7,OP34A6,OP34A5 ) $
RD2B4( DOUT8,DOUT9,DOUT10,DOUT11,DOUT12,DOUT13,DOUT14
,DOUT15 ) = READ2I ( MRDATA0,MRDATA1,MRDATA2,MRDATA3
,MRDATA4,MRDATA5
,MRDATA6,MRDATA7,DATAOUT8,DATAOUT9,NT12,NT13,NT14
,NT15,NT16,NT17,NT38,IOCMDRD ) $
RD2B1( DOUT0,DOUT1,DOUT2,DOUT3,DOUT4,DOUT5,DOUT6
,DOUT7 ) = READ2I ( MDOUT0,MDOUT1,MDOUT2,MDOUT3,MDOUT4,MDOUT5
,MDOUT6,MDOUT7,MUXREG0,MUXREG1,MUXREG2,MUXREG3,MUXREG4
,MUXREG5,MUXREG6,MUXREG7,NT38,IOCMDRD ) $
E4A6N( E4A601N ) = IV ( EI03BD45 ) $
P11A21( DATAEN,ADDRENIN, ) = BD2T ( OP11A16,CHRESET,NC/1/,NC/0/
) $
RB327( OP11A21A ) = IV ( ADDRENIN ) $
P16A10( RDHI,RDHIIN, ) = BD2T ( OP16A3,CHRESET,NC/1/,NC/0/
) $
P16A9( RDLO,RDLOIN, ) = BD2T ( OP16A5,CHRESET,NC/1/,NC/0/
) $
A3F7( AD06,DIN6, ) = BD2T ( DOUT6,NC/0/,ENBDBUS,NC/0/
) $
A5F6( AD02,DIN2, ) = BD2T ( DOUT2,NC/0/,ENBDBUS,NC/0/
) $
F1F5( AD00,DIN0, ) = BD2T ( DOUT0,NC/0/,ENBDBUS,NC/0/
) $
F4F1( AD07,DIN7, ) = BD2T ( DOUT7,NC/0/,ENBDBUS,NC/0/
) $
F3F2( AD05,DIN5, ) = BD2T ( DOUT5,NC/0/,ENBDBUS,NC/0/
) $
F5F5( AD04,DIN4, ) = BD2T ( DOUT4,NC/0/,ENBDBUS,NC/0/
) $
F2F2( AD03,DIN3, ) = BD2T ( DOUT3,NC/0/,ENBDBUS,NC/0/
) $
F2F4( AD01,DIN1, ) = BD2T ( DOUT1,NC/0/,ENBDBUS,NC/0/
) $
C5H6( AD09,DIN9, ) = BD2T ( DOUT9,NC/0/,OP16A6,NC/0/
) $
D5I2( AD10,DIN10, ) = BD2T ( DOUT10,NC/0/,OP16A6,NC/0/
) $

```

```

) $
A2F4( AD11,DIN11, ) = BD2T ( DOUT11,NC/0/,OP16A6,NC/0/
) $
F4F2( AD12,DIN12, ) = BD2T ( DOUT12,NC/0/,OP16A6,NC/0/
) $
C5H3( AD13,DIN13, ) = BD2T ( DOUT13,NC/0/,OP16A6,NC/0/
) $
A1F11( AD14,DIN14, ) = BD2T ( DOUT14,NC/0/,OP16A6,NC/0/
) $
F5F4( AD15,DIN15, ) = BD2T ( DOUT15,NC/0/,OP16A6,NC/0/
) $
F4F4( AD08,DIN8, ) = BD2T ( DOUT8,NC/0/,OP16A6,NC/0/
) $
P3A32( DS16 ) = BT4 ( OP3A30,NC/0/,NC/1/ ) $
BCS16A( ,IOCS16D ) = YFD2 ( NC/1/,DOTCLK,OP3A24 ) $
BCS16B( BCS16BZ ) = IV ( IOCS16D ) $
P3A31( VGAREQ ) = BT8 ( OP3A24,ENIOCS16,NC/1/ ) $
A1F6( PALRD ) = BT4 ( NDACRD,NC/0/,HIC5 ) $
P8A6( TRAP ) = BT8 ( OP8A5,TRAPEN,OP8A11 ) $
A1F7( PALWR ) = BT4 ( NDACWR,NC/0/,HIC5 ) $
A5F1( WE ) = BT4 ( NRAMWR,NC/0/,HIM5C5 ) $
E1I4( ACDCLK ) = BT2 ( IACDCLK,NC/0/,HIC5 ) $
E3E8N( E3E801N ) = IV ( NWT3C0 ) $
E3E8( WTATTA ) = ND3 ( E3E801N,OP20A11,NT68 ) $
E4A6( E4A601 ) = ND2 ( E4A601N,CRTC10 ) $
E4B1( E4B101 ) = ND2 ( E4A601N,CRTC11 ) $
E3E9N( E3E901N ) = IV ( NADDR00 ) $
E3E9( E3E901 ) = ND3 ( E3E901N,ATTA5N,ATTA4N ) $
F1B2( ENACCMEM ) = ND2 ( R46E8Q3,NT42 ) $
F2E1N( F2E101N ) = IV ( NWT3C45 ) $
F2E1( NT118 ) = ND3 ( F2E101N,PNADDR00,OF2E1A ) $
E1G62( AH7 ) = ND4 ( ADDR02,NADDR03,ADDR00,ADDR01 ) $
E1G61( AH8 ) = ND4 ( NADDR02,ADDR03,NADDR01,NADDR00 ) $
E1G6( AH708 ) = ND2 ( AH8,AH7 ) $
E1H42( IO3C89 ) = AN4 ( NADDR02,OA03CXA,ADDR03,NADDR01 ) $
E1H41( IO3C67 ) = AN4 ( ADDR01,OA03CXA,NADDR03,ADDR02 ) $
E1H4( N3C6789 ) = NR2 ( IO3C67,IO3C89 ) $
F1A32( IO3C809 ) = AN4 ( ADDR03,NADDR01,NADDR02,OA03CXA ) $
F1A31( IO3C6 ) = AN4 ( ADB10,OA03CXA,NADDR03,ADDR02 ) $
F1A3( NIO3C689 ) = NR2 ( IO3C6,IO3C809 ) $
E1H10( OE1H10 ) = MUX21L ( EI003BX,EID45,R3C2Q0 ) $
RB459( NIO3BDA ) = ND3P ( OE1H10,AHA,NT3FF ) $
RB460( EI03BD45 ) = ND3P ( OE1H10,ADDR010X,NT3FF ) $
P29A5( WR3D714 ) = ND3 ( OP29A3,N3D7WR2,R3D6NQ0 ) $
P29A4( WR3D715 ) = ND3 ( OP29A3,N3D7WR2,R3D6Q0 ) $
P29A3( OP29A3 ) = NR5 ( OP7A18,R3D6NQ4,R3D6Q3,R3D6NQ2,R3D6Q1 ) $
P29A26( WR3D708 ) = ND3 ( OP29A1,N3D7WR2,R3D6NQ0 ) $
P29A2( WR3D709 ) = ND3 ( OP29A1,N3D7WR2,R3D6Q0 ) $
P29A1( OP29A1 ) = NR5 ( OP7A18,R3D6Q4,R3D6NQ3,R3D6Q2,R3D6Q1 ) $
R3D728( R3D728Q0,NT74,R3D728Q1,,R3D728Q2,,R3D728Q3
, ) = LDG4R ( NRESET,WR3D728,DATAIN00,DATAIN01,DATAIN02
,DATAIN03
) $
R3D715( R3D715Q0,NT68,R3D715Q1,,R3D715Q2,,R3D715Q3
,,R3D715Q4,,R3D715Q5,,R3D715Q6,NT69
,, ) = LDG8R ( NRESET,WR3D715,DATAIN00,DATAIN01,DATAIN02
,DATAIN03,DATAIN04,DATAIN05,DATAIN06,DATAIN07 ) $
R3D72B( R3D72BQ0,,R3D72BQ1,,R3D72BQ2,,R3D72BQ3
,,R3D72BQ4,,R3D72BQ5,,R3D72BQ6,
,R3D72BQ7, ) = LDG8R ( NRESET,WR3D72B,DATAIN00,DATAIN01
,DATAIN02
,DATAIN03,DATAIN04,DATAIN05,DATAIN06,DATAIN07 ) $

```

```

R3D714( R3D714Q0,NT63,R3D714Q1,NT64,R3D714Q4,NT65,R3D714Q5
,NT66,R3D714Q6,NT67,R3D714Q7, ) = LDG6R ( NRESET,WR3D714
,DATAIN00,DATAIN01,DATAIN04,DATAIN05,DATAIN06,DATAIN07 ) $
R3D709( R3D709Q0,NT62,R3D709Q1, ) = LDG2R ( NRESET,WR3D709
,DATAIN00
,DATAIN01 ) $
R3D708( R3D708Q0,NT61,R3D708Q1,,R3D708Q2, ) = LDG3R ( NRESET
,WR3D708,DATAIN00,DATAIN01,DATAIN02 ) $
CTR4H( CTR4HZ ) = IV ( CTR4IQ ) $
CTR4R( CTR4RZ ) = IV ( CTR4HZ ) $
CTR4I( CTR4IQ, ) = FT2 ( IMCLK,NRESET ) $
CTR4J( CTR4JZ ) = NR2P ( CHRESET,CTR4NZ ) $
CTR4N( CTR4NZ ) = NR2 ( PIOCMDWR,CTR4KZ ) $
CTR4L( CTR4LZ ) = OR2 ( CTR4NZ,CTR4EZ ) $
CTR4K( CTR4KZ ) = ND2 ( CTR4CQN,CTR4AQN ) $
CTR4A( CTR4AQ,CTR4AQN ) = YFD2 ( CTR4BQN,CTR4RZ,CTR4JZ ) $
CTR4C( CTR4CQ,CTR4CQN ) = YFD2 ( CTR4DQN,CTR4HZ,CTR4JZ ) $
CTR4B( CTR4BQ,CTR4BQN ) = FD3 ( CTR4AQ,CTR4RZ,CTR4JZ,CTR4LZ ) $
CTR4D( CTR4DQ,CTR4DQN ) = FD3 ( CTR4CQ,CTR4HZ,CTR4JZ,CTR4LZ ) $
CTR4E( CTR4EZ ) = ND2 ( CTR4DQ,CTR4BQ ) $
CTR4F( CTR4FZ ) = A07 ( CTR4KZ,PIOCMDWR,CTR4EZ ) $
CTR4M( ,IOCMDWR ) = B2I ( CTR4FZ ) $
CTR4G( CTR4GZ ) = A03 ( EN16IOWR,PADDR00,CTR4KZ,IOCMDWR ) $
CTR4P( IOEN2 ) = IVP ( CTR4GZ ) $
CTR4O( IOWR2 ) = IVP ( CTR4KZ ) $
P22A15( IIOW ) = IV ( ISETUP ) $
P22A14( NMIO ) = IV ( IMIO ) $
P22A12( NT43 ) = IVP ( OP22A10 ) $
P22A10( OP22A10 ) = IV ( NIS0 ) $
P22A7( OP22A7 ) = ND2 ( NIS1,NT42 ) $
P22A6( PIOCMDWR ) = IV ( OP22A4 ) $
P22A4( OP22A4 ) = ND2 ( IIOW,NIMIO ) $
P22A3( NIOCMDRD ) = NR2 ( PCIOR,IVGACMD ) $
P22A3A( IOCMDRD ) = IVP ( NIOCMDRD ) $
P22A1( PCIOR ) = ND2 ( NIMIO,NT42 ) $
P18A15( OP18A15 ) = ND2 ( OP18A7,R3D703Q0 ) $
P18A7( OP18A7 ) = NR3 ( OP18A3,OP18A4,OP22A7 ) $
P18A4( OP18A4 ) = ND2 ( IADDHI,NADDR15 ) $
P18A3( OP18A3 ) = ND3 ( ADDR18,NADDR17,NADDR16 ) $
P19A1( VAL16REG ) = ND5P ( NIO3C45,EIO3BD45,NIO3CEF,OP13A1
,OP19A13 ) $
P11A33( OP11A33, ) = TLCHT ( S1,NC/0/ ) $
RB328( ISENSE, ) = TLCHT ( SENSE,NC/1/ ) $
P11A31( OP11A31, ) = TLCHT ( S0,NC/0/ ) $
P11A20( NSETUP ) = IV ( OP11A20B ) $
RB326( OP11A20B ) = IV ( OP21A7 ) $
P11A16( OP11A16I ) = ND3 ( ICMD,OP18A15,SLEEPONN ) $
RB153( CRTCM2,NCRTCM2 ) = LD2 ( DATAIN02,NT115 ) $
P11A15( IMIO,NIMIO ) = LD2P ( UIMIO,OP2A29 ) $
P11A12( IVGACMD, ) = TLCHT ( VGACMD,NC/0/ ) $
P11A7A( NICMD ) = IVP ( ICMD ) $
P11A7( ICMD ) = ND2 ( IVGACMD,OP11A6 ) $
P11A6( OP11A6 ) = IV ( OP11A4 ) $
P11A4( OP11A4 ) = ND3 ( OP11A33,OP11A31,ISETUP ) $
P11A2( NIS1 ) = IV ( OP11A33 ) $
P11A1( NIS0 ) = IV ( OP11A31 ) $
P3A35( NT102 ) = IVP ( NVACCMEM ) $
P3A30( OP3A30 ) = IVP ( R3D702Q0 ) $
P3A24( OP3A24 ) = IVP ( VAL16REG ) $
P3A18( NT28 ) = NR2 ( OP3A16N,MEMCMDWR ) $
P3A17( NT27 ) = NR2 ( OP22A7,OP3A16N ) $
P3A16( OP3A16N ) = ND4 ( R3D702Q0,NT102,IBHE,PNADDR00 ) $

```

P3A15(EN16IOWR) = NR2 (OP3A4,IOWR2) \$
P3A4(OP3A4) = ND2 (VAL16REG,IBHE) \$
RB329(O16A3TES,) = LD3 (OP16A3,IMCLK,R3D77FQ7) \$
P16A6(OP16A6I) = OR4 (OP16A3,OP11A21A,RDHIIN,O16A3TES) \$
RB201(OP16A6) = IVP (OP16A6I) \$
P16A5(OP16A5) = AN2 (D2G201A,NDACRD) \$
P16A3A(OP16A3A) = ND2 (VAL16REG,IBHE) \$
P16A3B(OP16A3B) = NR2 (OP16A3A,IOCMDRD) \$
P16A3(OP16A3) = NR3 (OP16A1,NT27,OP16A3B) \$
P16AC(OP16A2C) = AN2 (OP16A3B,PADDR00) \$
P16A2(D2G201A) = OR3 (NMEMIORD,OP16A2A,OP16A2C) \$
P16A2B(OP16A2B) = IV (NT38) \$
P16A2A(OP16A2A) = AN4 (R3D702Q0,IBHE,PADDR00,OP16A2B) \$
P16A1(OP16A1) = NR5 (NT56,PNADDR00,NIBHE,OP22A7,NVACCMEM) \$
P8A16A(,R3D717Q5) = FD2 (NC/1/,RD3D717,T3D45Q) \$
P8A16(,R3D717Q4) = FD2 (NC/1/,RD3D717,T3D83D9) \$
P8A15(,R3D717Q3) = FD2 (NC/1/,RD3D717,T3D45) \$
P8A14(,R3D717Q2) = FD2 (NC/1/,RD3D717,T3CX) \$
P8A13(,R3D717Q1) = FD2 (NC/1/,RD3D717,T3B83BF) \$
P8A12(,R3D717Q0) = FD2 (NC/1/,RD3D717,T3B45) \$
P8A11(OP8A11) = A02 (R3D709Q1,OP8A10,SLEEPON,NORMPINF) \$
P8A10(OP8A10) = IV (R3D708Q1) \$
P8A9(OP8A9) = IV (R3D709Q1) \$
P8A8(OP8A8) = AN2 (R3D708Q1,R3D709Q1) \$
P8A7(OP8A7) = AN2 (R3D708Q1,OP8A9) \$
P8A5(OP8A5) = OR2 (OP8A4,OP8A8) \$
P8A4(OP8A4) = NR6 (R3D717Q0,R3D717Q1,R3D717Q2,R3D717Q3
,R3D717Q4,OP8A7
) \$
P8A3(OP8A3) = OR2 (EN3D717,IOCMDRD) \$
P8A3A(RD3D717) = AN2 (OP8A3,NRESET) \$
P8A1(EN3D717) = ND3 (OP7A1,R3D6Q0,ADDR00) \$
P6A3(WR3BF) = OR2 (EN3BF,IOCMDWR) \$
P6A2(AWR3D9) = OR2 (EN3D9,IOCMDWR) \$
P6A1(WR3BD8) = OR2 (EN3BD8,IOCMDWR) \$
R3D70B(R3D70BQ0,NT53,R3D70BQ1,) = LDG2R (NRESET,WR3D70B
,DATAIN00
,DATAIN01) \$
R3D704(R3D704Q0,,R3D704Q1,,R3D704Q2,,R3D704Q3
,) = LDG4R (NRESET,WR3D704,DATAIN00,DATAIN01,DATAIN02
,DATAIN03
) \$
R3BF(R3BFQ0,,R3BFQ1,R3BFNQ1) = LDG2R (NRESET,WR3BF,DATAIN00
,DATAIN01) \$
R3D9(R3D9Q0,,R3D9Q1,,R3D9Q2,,R3D9Q3
,,R3D9Q4,,R3D9Q5,) = LDG6R (NRESET,WR3D9
,DATAIN00,DATAIN01,DATAIN02,DATAIN03,DATAIN04,DATAIN05) \$
R3B8(R3B8Q0,,R3B8Q1,R3B8NQ1,R3B8Q2,,R3B8Q3
,R3B8NQ3,R3B8Q4,R3B8NQ4,R3B8Q5,,R3B8Q6,
,R3B8Q7,) = LDG8R (NRESET,WR3BD8,DATAIN00,DATAIN01,DATAIN02
,DATAIN03,DATAIN04,DATAIN05,DATAIN06,DATAIN07) \$
P7A18(OP7A18) = ND3 (R3D6NQ7,R3D6NQ6,R3D6NQ5) \$
P7A40(OP7A40) = NR3 (CRTAQ2N,OP7A42,OP7A41) \$
P7A41(OP7A41) = IV (CRTAQ4N) \$
P7A42(OP7A42) = IV (CRTAQ3) \$
P7A18A(OP7A18A) = ND4 (R3D6NQ7,R3D6NQ6,R3D6NQ5,ADDR00) \$
P7A16(T3D83D9) = OR3 (OP7A15,IOCMDWR,EID45) \$
P7A15(OP7A15) = ND4 (ADDR03,R3D716Q4,NADDR02,NADDR01) \$
P7A12A(T3D45Q) = OR4 (OP7A9A,I00T3FF,OP7A40,NIOEN2) \$
P7A12(T3D45) = OR3 (OP7A9,I00T3FF,IOCMDWR) \$
P7A11(T3CX) = OR2 (OP7A10,IOCMDWR) \$
P7A10(OP7A10) = ND2P (R3D716Q2,EWIO3CX) \$

```

P7A9A( OP7A9A ) = OR3 ( NT73,NADD010X,EIO3BD45 ) $
P7A9( OP7A9 ) = OR3 ( NT72,NADD010X,EID45 ) $
P7A8( NIOEN2 ) = IV ( IOEN2 ) $
P7A6A( OP7A6A ) = AN4 ( ADDR03,NADDR02,NADDR01,NADDR00 ) $
P7A7( T3B83BF ) = OR4 ( OP7A6,NT71,IOCMDWR,EIO03BX ) $
P7A6( OP7A6 ) = NR2 ( OP7A6A,OP10A7 ) $
P7A5( T3B45 ) = OR3 ( OP7A4,OP7A40,IOCMDWR ) $
P7A4A( NADD010X ) = IV ( ADDR010X ) $
P7A4( OP7A4 ) = OR3 ( NT70,EIO03BX,NADD010X ) $
R3D77F( R3D77FQ0,NT78,R3D77FQ1,NT79,R3D77FQ2,,R3D77FQ3
,,R3D77FQ4,NT80,R3D77FQ5,NT81,R3D77FQ6,NT82
,R3D77FQ7,,NT77 ) = TESTREG ( NRESET,WR3D77F,DATAIN00,DATAIN01
,DATAIN02,DATAIN03,DATAIN04,DATAIN05,DATAIN06,DATAIN07,IMCLK
) $
R3D716( R3D716Q0,NT70,R3D716Q1,NT71,R3D716Q2,,R3D716Q3
,NT72,R3D716Q4,,R3D716Q5,NT73 ) = LDG6R ( NRESET,WR3D716
,DATAIN00,DATAIN01,DATAIN02,DATAIN03,DATAIN04,DATAIN05 ) $
P7A3( WR3D716 ) = ND3 ( OP7A1,N3D7WR2,R3D6NQ0 ) $
P7A1( OP7A1 ) = NR6 ( R3D6NQ4,R3D6Q3,R3D6NQ2,R3D6NQ1,OP7A18,OP13A1
) $
P10A17( R3C2NQ0 ) = IV ( R3C2Q0 ) $
P718A2( EN3D716 ) = ND3 ( R3D6NQ0,OP7A1,ADDR00 ) $
P10A14( EN3BD8 ) = NR2 ( OP10A13,OP10A5 ) $
P10A13( OP10A13 ) = AN4 ( OP10A11,NADDR00,R3C2Q0,NT3FF ) $
P10A12( EN3D9 ) = ND3 ( OP10A11,ADDR00,NT3FF ) $
P10A11( OP10A11 ) = AN3 ( OP10A9,OP10A10,OP10A11A ) $
RB325( OP10A11A ) = IV ( EIO03DX ) $
P10A10( OP10A10 ) = AN3 ( ADDR03,NADDR02,NADDR01 ) $
P10A9( OP10A9 ) = OR2 ( OP10A8,R103Q7 ) $
P10A8( OP10A8 ) = NR2 ( R3D714Q1,NT63 ) $
P10A7( OP10A7 ) = AN4 ( ADDR00,ADDR01,ADDR02,ADDR03 ) $
P10A6( EN3BF ) = ND4 ( OP10A4,OP10A7,OP10A5C,NT3FF ) $
P10A5C( OP10A5C ) = IV ( EIO03BX ) $
P10A5( OP10A5 ) = AN4 ( OP10A2,OP10A5C,OP10A5A,R3C2NQ0 ) $
P10A5A( OP10A5A ) = AN4 ( NADDR00,NADDR01,NADDR02,ADDR03 ) $
P10A3( OP10A4 ) = A07 ( NT63,NT64,R103NQ7 ) $
P10A2( OP10A2 ) = OR2 ( R3D714Q1,R103Q7 ) $
P10A1( VGAEM ) = A07 ( R3D714Q1,R3D714Q1,R103NQ7 ) $
P15A21( NENERNIE ) = ND4 ( OP15A17,OP15A18,OP15A19,OP15A20 ) $
P15A20( OP15A20 ) = OR2 ( OP15A13,NEEN1 ) $
P15A19( OP15A19 ) = OR2 ( OP15A14,NEEN2 ) $
P15A18( OP15A18 ) = OR2 ( OP15A15,NEEN3 ) $
P15A17( OP15A17 ) = OR2 ( OP15A16,NEEN4 ) $
P15A16( OP15A16 ) = NR2 ( OP15A9,NEEN4 ) $
P15A15( OP15A15 ) = NR2 ( OP15A10,NEEN3 ) $
P15A14( OP15A14 ) = NR2 ( OP15A11,NEEN2 ) $
P15A13( OP15A13 ) = NR2 ( OP15A12,NEEN1 ) $
P15A12( OP15A12 ) = EO ( ADD16,R103Q0 ) $
P15A11( OP15A11 ) = EO ( ADD17,R103Q1 ) $
P15A10( OP15A10 ) = EO ( ADD18,R103Q2 ) $
P15A9( OP15A9 ) = EO ( NBHE,R103Q3 ) $
P15A8( NALTEN,ALTEN ) = YFD2 ( NENERNIE,WR103,NRESET ) $
P15A7( NEEN1 ) = IV ( OP15A6 ) $
P15A6( OP15A6 ) = OR2 ( OP15A4,R103Q1 ) $
P15A5( NEEN2 ) = IV ( OP15A4 ) $
P15A4( OP15A4 ) = OR2 ( OP15A3,R103Q2 ) $
P15A3( OP15A3 ) = OR2 ( R103Q4,R103Q3 ) $
P15A2( NEEN3 ) = IV ( OP15A3 ) $
P15A1( NEEN4 ) = IV ( R103Q4 ) $
R103( R103Q0,,R103Q1,,R103Q2,,R103Q3
,,R103Q4,,R103Q5,,R103Q6,R103NQ6
,R103Q7,R103NQ7 ) = LDG8R ( NRESET,WR103,DATAIN00,DATAIN01

```

```

,DATAIN02
,DATAIN03,DATAIN04,DATAIN05,DATAIN06,DATAIN07 ) $
BDSEL( OBDSEL ) = ND2 ( ODEQD,ODEQB ) $
DEQB( ODEQB ) = ND3 ( R103Q6,NADDR06,ADDR05 ) $
DEQD( ODEQD ) = ND3 ( R103NQ6,ADDR06,NADDR05 ) $
P12A10( WR103 ) = OR2 ( OP12A8,IOCMDWR ) $
P12A7( OP12A7 ) = ND3 ( OP12A5,OP12A6,OP12A3 ) $
P12A8( OP12A8 ) = ND3 ( OP12A5,OP12A6,OP12A4 ) $
P12A6( OP12A6 ) = IV ( OP12A6A ) $
P12A6A( OP12A6A ) = NR2 ( PSETUP,OP12A6B ) $
P12A6B( OP12A6B ) = IV ( NSETUP ) $
P12A5( OP12A5 ) = NR2 ( OP12A1,OP12A2 ) $
P12A4( OP12A4 ) = NR3 ( ADDR02,NADDR01,NADDR00 ) $
P12A3( OP12A3 ) = NR3 ( NADDR02,ADDR01,ADDR00 ) $
P12A2( OP12A2 ) = ND5 ( NADDR07,NADDR06,NADDR05,NADDR04
,NADDR03 ) $
P12A1( OP12A1 ) = ND4 ( NT3FF,NADDR09,ADDR08,NIMIO ) $
P14A9( WR3D77F ) = ND3 ( OP14A7,OP14A8,N3D7WR2 ) $
P14A8( OP14A8 ) = NR4 ( R3D6NQ3,R3D6NQ2,R3D6NQ1,R3D6NQ0 ) $
P14A7( OP14A7 ) = NR4 ( R3D6Q7,R3D6NQ6,R3D6NQ5,R3D6NQ4 ) $
P14A6( WR3D703 ) = ND4 ( OP14A1,N3D7WR2,R3D6Q1,R3D6Q0 ) $
P14A5( WR3D702 ) = ND4 ( OP14A1,N3D7WR2,R3D6Q1,OP14A2 ) $
P14A3( R3D703Q0 ) = IV ( NT60 ) $
P14A2( OP14A2 ) = IV ( R3D6Q0 ) $
P14A1( OP14A1 ) = NR6 ( R3D6Q7,R3D6Q6,R3D6Q5,R3D6Q4,R3D6Q3,R3D6Q2
) $
R3D703( NT60,, ) = LDG2R ( NRESET,WR3D703,DATAIN00
,DATAIN01 ) $
P13A7( P3D7WR2 ) = ND2 ( IOEN2,OP13A3 ) $
P13A5( WR3D6 ) = ND2 ( OP13A4,PNADDR00 ) $
P13A4( OP13A4 ) = NR2 ( OP13A1,IOCMDWR ) $
P13A2( OP13A2 ) = NR4 ( ADDR03,NADDR02,NADDR01,R103NQ7 ) $
P13A1D( OP13A1D ) = IV ( ENR34 ) $
P13A1C( OP13A1C ) = IV ( EN3D77E ) $
P13A1A( OP13A1A ) = NR2 ( OP13A3,OP13A1D ) $
P13A1( OP13A1P ) = ND2 ( OA03DXA,OP13A2 ) $
P13A19( OP13A3,OP13A1 ) = B2I ( OP13A1P ) $
R3D6( ,R3D6NQ0,R3D6Q1,R3D6NQ1,R3D6Q2,R3D6NQ2,R3D6Q3
,R3D6NQ3,R3D6Q4,R3D6NQ4,R3D6Q5,R3D6NQ5,R3D6Q6,R3D6NQ6
,R3D6Q7,R3D6NQ7 ) = LD8L ( WR3D6,IDIN0,IDIN1,IDIN2,IDIN3
,IDIN4,IDIN5,IDIN6,IDIN7 ) $
R3D6A( R3D6Q0 ) = IVP ( R3D6NQ0 ) $
P17A3( NIBHE,IBHE ) = LD2 ( NBHE,OP2A29 ) $
P17A7( ADDR18,NADDR18 ) = LD2 ( ADD18,OP2A29 ) $
P17A6( ADDR17,NADDR17 ) = LD2 ( ADD17,OP2A29 ) $
P17A5( ADDR16,NADDR16 ) = LD2 ( ADD16,OP2A29 ) $
P17A4( IADDHI, ) = LD2 ( PADDHI,OP2A29 ) $
P21A7( OP21A7 ) = IV ( PSETUP ) $
R46E8( R46E8Q3,,PSETUP, ) = LDG2R ( NRESET,OP21A4,DATAIN03
,DATAIN04 ) $
P21A4( OP21A4 ) = OR4 ( OP21A1,OP21A2,OP21A3,IOCMDWR ) $
P21A3( OP21A3 ) = ND5 ( NADDR04,ADDR03,NADDR02,NADDR01,NADDR00 ) $
P21A2( OP21A2 ) = ND6 ( ADDR10,ADDR09,NADDR08,ADDR07,ADDR06,ADDR05
) $
P21A1( OP21A1 ) = ND4 ( NMIO,NADDR15,ADDR14,NADDR11 ) $
GCDEC( WTRGC04,GCAQ3,GCAQ2,GCAQ1,GCAQ0,WTRGC07,WTRGC06
,WTRGC01,WTRGC02,WTRGC00,WTRGC03,WTRGC05,WTRGC08,GC05A0
,GC08A0,GC03A0,GC06A0,GC04A0,GC01A0,GC07A0,GC00A0
,GC02A0,GC00A0N,GC03A0N ) = GCDEC2 ( IDIN3,IDIN2,IDIN1,IDIN0
,WTGCADDR,WT3CEF ) $
A4A5( LOM5 ) = IVP ( NT79 ) $
B3G11( NCLRHC ) = AN2 ( B3G11A,B3G11B ) $

```


RB101(B3G11B) = NR2 (IOCLRHC,ENDHOR) \$
 RB100(B3G11A) = B4IP (CHRESET) \$
 B5H6(UIMIO,) = TLCHT (MIO,NC/0/) \$
 C2C6(C2C601) = AN3 (B1G1101,NGC04A0,C2C501) \$
 P11A13(ISETUP,) = TLCHT (SETUP,NC/0/) \$
 D1B14(NWT3CEF) = OR2 (NIO3CEF,IOCMDWR) \$
 D1F5(NDACWR) = OR3 (IOCMDWR,N3C6789,R3D715Q5) \$
 D1B15(D1B1501) = IV (NWT3CEF) \$
 D1G2(PLOC5) = IV (NT78) \$
 RB178(D2G20TES,) = LD3 (D2G201A,IMCLK,R3D77FQ7) \$
 D1F12(ENBDBUSI) = OR4 (D2G201A,OP11A21A,RDLOIN,D2G20TES) \$
 RB200(ENBDBUS) = IVP (ENBDBUSI) \$
 D2E3(NT39) = ND2 (NT43,NT102) \$
 D2E4(NT38) = OR2 (NVACCMEM,OP22A7) \$
 D2B1(WTCADDR) = ND4 (D1B1501,ADDR01,PNADDR00,NT68) \$
 D2B2A(WT3CEF) = AN3 (D2B201A,IOEN2,NT68) \$
 D2B2(D2B201A) = NR2 (NADDR01,NIO3CEF) \$
 D2H2A(PD2H2A) = ND4 (EN3D9,EN3BD8,OP13A1P,NIO3CEF) \$
 D2H2AI(OD2H2A) = IV (PD2H2A) \$
 D2H2B(OD2H2B) = OR2 (ENR34,NSETUP) \$
 D2H2(NIOREG) = AN3 (NIOREG1,OD2H2A,OD2H2B) \$
 D2E5(NIO3CEFM) = AN2 (NIO3CEF,NT38) \$
 P1A33(NT106,) = TLCHT (ENABLE,NC/0/) \$
 P1A34(,NOP1A34) = LD2 (NT106,ICMD) \$
 P1A36(NT42) = IV (NOP1A34) \$
 E1H6(NWTDACS) = OR3 (NIO3C78,IOCMDWR,R3D715Q5) \$
 E1F7(NIO3CEF) = ND4P (ADDR02,ADDR01,ADDR03,EWIO3CX) \$
 E1G4(NIO3C01) = ND4 (NADDR03,EWIO3CX,NADDR01,NADDR02) \$
 E1H7A(OE1H7A) = ND3 (NADDR03,ADDR02,NADDR01) \$
 E1H7(ADDR010X) = MUX21L (ADDR03,OE1H7A,VGAEM) \$
 E1H2(NDACRD) = OR2 (IOCMRD,NIO3C689) \$
 E2G5(IOCLRHC,) = YFD2 (SEQ70F,WT3C5,NRESET) \$
 RB170(DACST0,) = LD2 (ADDR00,NWTDACS) \$
 RB171(DACST1,) = LD2 (ADDR01,NWTDACS) \$
 E2E6(BDOUT41) = AN2 (E2F501,NSEQ1) \$
 E2F6(BDOUT43) = AN3 (ADDR00,E2H901,NSEQ0) \$
 E2G4(SEQ70F) = AN3 (SEQA0,SEQA1,SEQA2) \$
 E2G6(BDOUT40) = AN2 (F2B801,NSEQ4) \$
 E2B3(WT3BDA) = OR3 (IOCMDWR,NIO3BDA,R3D715Q4) \$
 E2D3(RD3BDA) = OR2 (IOCMRD,NIO3BDA) \$
 P20A8(OP20A8) = AN2 (RD3BDA,NAMODE01) \$
 E2C4(EWIO010N) = ND2P (E2C501,ADDR01) \$
 E2D5(VGAENW) = ND2 (NSETUP,POS102Q0) \$
 E2G7(E2G701) = ND2 (SEQ03,ADDR00) \$
 E2G8(WTRSEQ01) = ND2 (SEQ01,WT3C5) \$
 E2H3(WRSEQ00) = ND2 (SEQ00,WT3C5) \$
 E2H7(WTRSEQ03) = ND2 (SEQ03,WT3C5) \$
 E2H8(NSEQ1) = ND2 (SEQ01,ADDR00) \$
 E2C5(E2C501) = NR4 (ADDR02,IMIO,NSETUP,ADDR00) \$
 E2F3(NWT3C0) = OR3 (NIO3C01,OP20A1,IOCMDWR) \$
 P20A7(AMODE02) = NR2 (R3D702Q3,NT58) \$
 P20A5(NAMODE01) = IVP (AMODE01) \$
 P20A4(AMODE01) = NR2 (R3D702Q4,NT57) \$
 P20A2(AMODE00) = NR2 (R3D702Q3,R3D702Q4) \$
 P20A1(OP20A1) = NR2 (AMODE02,PNADDR00) \$
 E2F7(BDOUT42) = AN2 (F2A1101,NSEQ0) \$
 A03BX(EINN3BX) = ND4 (NADDR06,NVGENW,ADDR05,ADDR04) \$
 A3DXA(OA03DXA) = NR2 (IO0XHX,EIO03DX) \$
 A3BXG(EIO03BX) = OR2 (EINN3BX,EIO3XX) \$
 A3DXG(EIO03DX) = OR2 (EINN3DX,EIO3XX) \$
 A3CXG(XXIO3CX) = OR2 (XXNN3CX,EIO3XX) \$
 A3DXGA(EID45) = OR2 (OA3DXA,EIO3XX) \$

A03DXA(OA3DXA) = ND4 (ADDR06,NADDR05,ADDR04,NVGENW) \$
A03DX(EINN3DX) = ND3 (OBDSEL,NVGENW,ADDR04) \$
E3A5(E3A501) = ND2 (E3D801,ATTX4) \$
E3A6(WTRATT34) = ND2 (ATTX4,WTATT1X) \$
E3A8(WTRATT30) = ND2 (ATTX0,WTATT1X) \$
E3B6(E3B601) = ND2 (E3D801,ATTX0) \$
E3B8(E3B801) = ND2 (E3D801,ATTX3) \$
E3B9(WTRATT33) = ND2 (ATTX3,WTATT1X) \$
E3C3(E3C301) = ND2 (E3D801,ATTX2) \$
E3C4(WTRATT12) = ND2 (ATTX2,WTATT1X) \$
E3D5(WTRATT31) = ND2 (ATTX1,WTATT1X) \$
E3D6(E3D601) = ND2 (E3D801,ATTX1) \$
E3A7(ATTX4) = AN3 (ATTA1N,ATTA2,ATTA0N) \$
E3B4(ATTX2) = AN3 (ATTA2N,ATTA1,ATTA0N) \$
E3B5(ATTX1) = AN3 (ATTA2N,ATTA1N,ATTA0) \$
E3B7(ATTX0) = AN3 (ATTA2N,ATTA0N,ATTA1N) \$
E3B10(ATTX3) = AN3 (ATTA2N,ATTA1,ATTA0) \$
P20A17(OP20A17) = ND3 (OP20A14,OP20A15A,OP20A16) \$
P20A16(OP20A16) = ND3 (AMODE02,SELATTD,E3E801N) \$
RB331(OP20A15A) = ND2 (OP20A15,IOEN2) \$
P20A15(OP20A15) = NR2 (NAMODE01,NIO3C01) \$
P19A13(OP19A13) = IVP (OP20A15) \$
P20A14(OP20A14) = ND4 (SELATTD,AMODE00,PNADDR00,E3E801N) \$
P20A11(OP20A11) = ND3 (OP20A9,OP20A10,OP20A11A) \$
RB330(OP20A11A) = ND2 (SELATTA,AMODE02) \$
P20A10(OP20A10) = ND2 (AMODE01,PNADDR00) \$
P20A9(OP20A9) = ND3 (AMODE00,PNADDR00,SELATTA) \$
E3C7(NWTATTD) = ND2P (OP20A17,NT68) \$
E3C8(PRAMCL) = NR3 (NWTATTD,ATTA4,ATTA5) \$
E3D8(E3D801) = NR2 (NADDR00,ATTA4N) \$
E3D9(WTATT1X) = NR2 (NWTATTD,ATTA4N) \$
E3D18(IO0XHX) = ND6P (NADDR12,NADDR11,NADDR10,NADDR15
,NADDR14,NADDR13
) \$
E3E18(IO0T3FF) = AN2P (NT59,IO0XHX) \$
E3E18I(NT3FF) = IVP (IO0T3FF) \$
E3E19(EI03XX) = ND6 (ADDR08,R46E8Q3,ADDR09,ALTEN,NIMIO,ADDR07
) \$
E4A5(E4A501) = OR2 (NADDR00,E4B501) \$
E4B5(E4B501) = OR3 (EI03BD45,CRTC10,CRTC11) \$
F1C10(NIO3CC) = ND5P (NADDR01,NADDR00,ADDR02,OA03CXA,ADDR03) \$
F1D4(EWIO3C2) = ND5P (NADDR00,ADDR01,EWIO3CX,NADDR02
,NADDR03) \$
F1A2(ADB10) = AN2 (ADDR01,NADDR00) \$
F1B7(F1B701) = AN2 (F1C201,ACCMEM) \$
F1B10C(OF1B10C) = ND3 (ADDR16,GC06Q2N,GC06Q3) \$
F1B10B(OF1B10B) = NR3 (NTWOPAG,F1C501,OF1B10C) \$
F1B10A(OF1B10A) = OR2 (F1B801,OF1B10B) \$
F1B10(F1B1001) = AN2 (ACCMEM,OF1B10A) \$
F1B5(GC06Q2N) = IVP (GC06Q2) \$
F1D5(GC06Q3N) = IVP (GC06Q3) \$
F1A5(NIO3C45) = ND4 (NADDR01,EWIO3CX,NADDR03,ADDR02) \$
F1C4(NERAMABX) = ND4 (ADDR17,R3C2Q1,IADDHI,NADDR18) \$
F1C5(F1C501) = ND4 (ADDR15,R3C2Q1,IADDHI,ADDR17) \$
F1A6(NIO3C78) = ND2 (OA03CXA,AH708) \$
F1A11(NIO3CA) = ND2P (OA03CXA,AHA) \$
F1B11(NVACCMEM) = ND2P (ACCMEM,MEMVALD) \$
F1A7(AHA) = AN4 (NADDR02,ADDR03,NADDR00,ADDR01) \$
F1B3(F1B301) = NR2 (GC06Q2N,ADDR16) \$
F1B4(F1B401) = NR2 (GC06Q2N,F1B301) \$
F1B9(ACCMEM) = NR3 (VGAENW,ENACCMEM,NALTEN) \$
F1D11(MAP00) = NR2 (GC06Q3,GC06Q2) \$

```

F1D8( MEMVALD ) = NR2 ( NMEMMAP,NERAMABX ) $
F1B8( F1B801 ) = NR4 ( F1B401,ADDR18,F1C501,GC06Q3 ) $
F1C2( F1C201 ) = NR4 ( GC06Q2,ADDR18,GC06Q3,F1D301 ) $
F1C6A( OF1C6A ) = AN2 ( NTWOPAG,ADDR15 ) $
F1C6( MAP10HL ) = NR4 ( GC06Q2,OF1C6A,NADDR16,GC06Q3N ) $
F1C7( MAP11HH ) = NR4 ( GC06Q2N,NADDR15,NADDR16,GC06Q3N ) $
F1D9( NMEMMAP ) = NR4 ( MAP11HH,MAP10HL,MAP00,MAP01L ) $
F1D3( F1D301 ) = ND3 ( ADDR17,R3C2Q1,IADDHI ) $
F1E8( NIO3C7 ) = ND3P ( ADDR02,AH708,OA03CXA ) $
F1D6( MAP01L ) = NR3 ( GC06Q2N,ADDR16,GC06Q3 ) $
F1D13( NWT3C45 ) = OR2 ( NIO3C45,IOCMDWR ) $
F1E5( WTR3C2 ) = OR3 ( IOCMDWR,EWIO3C2,R3D715Q4 ) $
F1F3( ADD16, ) = TLCHT ( A16,NC/0/ ) $
F1F6( ADD17, ) = TLCHT ( A17,NC/0/ ) $
F1F8( ADD18, ) = TLCHT ( A18,NC/0/ ) $
F1F10A( CHRESET ) = B4IP ( CHRESETQ ) $
RB557( NRESET ) = B4IP ( RESET12 ) $
F1F10( CHRESETI, ) = TLCHT ( RESET,NC/0/ ) $
A03CX( XXNN3CX ) = ND4 ( NADDR04,NVGENW,NADDR05,ADDR06 ) $
ENW( NVGENW ) = IV ( VGAENW ) $
A3CX( EWIO3CX ) = NR2P ( IO0T3FF,XXIO3CX ) $
A3CXA( OA03CXA ) = NR2P ( IO0XHX,XXIO3CX ) $
F2A6( SEQ00 ) = AN3 ( SEQA2N,SEQA0N,SEQA1N ) $
F2A7( SEQ01 ) = AN3 ( SEQA2N,SEQA0,SEQA1N ) $
F2A8( SEQ03 ) = AN3 ( SEQA2N,SEQA0,SEQA1 ) $
F2B7( SEQ02 ) = AN3 ( SEQA1,SEQA0N,SEQA2N ) $
F2D9( SEQ04 ) = AN3 ( SEQA2,SEQA0N,SEQA1N ) $
F2A9( NSEQ0 ) = ND2 ( SEQ00,ADDR00 ) $
F2A10( SEQ02A0 ) = ND2 ( ADDR00,SEQ02 ) $
F2B4( WTRSEQ04 ) = ND2 ( SEQ04,WT3C5 ) $
F2B9( WTRSEQ02 ) = ND2 ( SEQ02,WT3C5 ) $
F2D10( NSEQ4 ) = ND2 ( ADDR00,SEQ04 ) $
P2A43( VALIOADD ) = IV ( NIOREG ) $
P2A41( MEMCMDWR ) = IVP ( NT43 ) $
RB275( ,LPD07,,LPD06,,LPD05,
,LPD04,,LPD03,,LPD02,,LPD01
,,LPD00 ) = YLDG8 ( ADRCNT07,ADRCNT06,ADRCNT05,ADRCNT04
,ADRCNT03
,ADRCNT02,ADRCNT01,ADRCNT00,NLPSTB ) $
RB276( ,LPD15,,LPD14,,LPD13,
,LPD12,,LPD11,,LPD10,,LPD09
,,LPD08 ) = YLDG8 ( ADRCNT15,NT10,ADRCNT13,ADRCNT12,ADRCNT11
,ADRCNT10,ADRCNT09,ADRCNT08,NLPSTB ) $
P2A40( MDOUT0,,MDOUT1,,MDOUT2,,MDOUT3
,,MDOUT4,,MDOUT5,,MDOUT6,
,MDOUT7, ) = LDG8 ( SECBYTE,MRDATA0,MRDATA1,MRDATA2,MRDATA3
,MRDATA4,MRDATA5,MRDATA6,MRDATA7 ) $
DADL1( IDIN8,,IDIN9,,IDIN10,,IDIN11
,,IDIN12,,IDIN13,,IDIN14,
,IDIN15, ) = LDG8 ( NICMD,DIN8,DIN9,DIN10,DIN11
,DIN12,DIN13,DIN14,DIN15 ) $
DADL0( IDIN0,,IDIN1,,IDIN2,,IDIN3
,,IDIN4,,IDIN5,,IDIN6,
,IDIN7, ) = LDG8 ( NICMD,DIN0,DIN1,DIN2,DIN3
,DIN4,DIN5,DIN6,DIN7 ) $
ADDL1( ADDR08,NADDR08,ADDR09,NADDR09,ADDR10,NADDR10,ADDR11
,NADDR11,ADDR12,NADDR12,ADDR13,NADDR13,ADDR14,NADDR14
,ADDR15,NADDR15 ) = LD8L ( OP2A29,DIN8,DIN9,DIN10,DIN11
,DIN12,DIN13,DIN14,DIN15 ) $
ADDL0( PADDR00,PNADDR00,ADDR01,NADDR01,ADDR02,NADDR02,ADDR03
,NADDR03,ADDR04,NADDR04,ADDR05,NADDR05,ADDR06,NADDR06
,ADDR07,NADDR07 ) = LD8 ( OP2A29,DIN0,DIN1,DIN2,DIN3

```

```

,DIN4,DIN5,DIN6,DIN7 ) $
JOHN2( OJOHN2 ) = NR2 ( SECBYTE,ADDR00 ) $
JOHN3( JADD0,NJADD0 ) = B3I ( OJOHN2 ) $
F2D1B( WT3C5 ) = NR2 ( NIO3C45,F2D101AN ) $
F2D1( F2D101AN ) = ND2 ( IOEN2,NT68 ) $
F2E1A( OF2E1A ) = IV ( R3D715Q0 ) $
F2F7( PADDHI, ) = TLCHT ( ADDHI,NC/0/ ) $
A3A14( HIC5 ) = IVP ( PLOC5 ) $
A3A11( HIM5C5 ) = B4I ( LOM5 ) $
P26A1( OP26A1 ) = IVP ( EN16IOWR ) $
P1A9( OP1A9 ) = IVP ( SECBYTE ) $
P1A7( AMUXEN ) = ND3P ( OP1A5,OP1A6,OP1A6D ) $
P1A6( OP1A6 ) = ND3 ( NT28,OP1A6C,OP1A9 ) $
P1A6D( OP1A6D ) = ND3 ( NT43,NT102,NT56 ) $
P1A6A( OP1A6A ) = ND2 ( ATT02Q1,OP1A6B ) $
P1A6B( OP1A6B ) = IV ( ATT02Q2 ) $
P1A6C( OP1A6C ) = IV ( OP1A6A ) $
P1A5( OP1A5 ) = ND4 ( NIBHE,NT102,R3D702Q0,NT43 ) $
P1A45( ,BMUXENX ) = LD1 ( OP1A4A,ICMD ) $
P1A4A( OP1A4A ) = ND2 ( OP1A3,OP26A1 ) $
P1A60( BMUXEN ) = ND3P ( OP1A1,OP1A2,BMUXENX ) $
P1A3( OP1A3 ) = ND3 ( IBHE,PADDR00,VALIOADD ) $
P1A2( OP1A2 ) = ND3 ( NT28,OP1A6C,SECBYTE ) $
P1A1( OP1A1 ) = ND5 ( PADDR00,NT102,R3D702Q0,IBHE,NT43 ) $
E3D7( SELATTD,SELATTA ) = FD2 ( SELATTA,NWT3C0,OP20A8 ) $
RB30( ATTA0,ATTA0N,ATTA1,ATTA1N,ATTA2,ATTA2N,ATTA3
,ATTA4,ATTA4N,ATTA5,ATTA5N ) = LDG6 ( WTATTA,IDIN0
,IDIN1,IDIN2,IDIN3,IDIN4,IDIN5 ) $
GC06( GC06Q0,GC06NQ0,GC06Q1,,GC06Q2,,GC06Q3
, ) = LDG4 ( WTRGC06,DATAIN00,DATAIN01,DATAIN02,DATAIN03 ) $
RB374( SEQA0,SEQA0N,SEQA1,SEQA1N,SEQA2,SEQA2N ) = LDG3R ( NRESET
,NT118,IDIN0,IDIN1,IDIN2 ) $
R3BDA( R3BDAQ0,,R3BDAQ1,,R3BDAQ2, ) = YFFD3 ( WT3BDA
,NRESET,DATAIN00,DATAIN01,DATAIN03 ) $
R3C2( R3C2Q0,,R3C2Q1,,R3C2Q2,,R3C2Q3
,,R3C2Q5,,R3C2Q6,,R3C2Q7,
) = YFFD7 ( WTR3C2,NRESET,DATAIN00,DATAIN01,DATAIN02
,DATAIN03,DATAIN05
,DATAIN06,DATAIN07 ) $
CRTDEC( CRT18TF,CRT08TF,CRT20T7,CRT00T7,CRT10T7,CRTAQ0N,CRTAQ1N
,CRTAQ2,CRTAQ2N,WCRTC01,WCRTC00,WCRTC07,WCRTC06,WCRTC03
,WCRTC05,WCRTC04,WCRTC02,WCRTC18,W3BD45,WCRT0T7,WCRTC07A
,CRTAQ4,CRTAQ5,CRTAQ4N,CRTAQ3,WCRTC08,WCRTC0B,WCRTC0A
,WCRTC0F,WCRTC10,WCRTC0D,WCRTC0C,WCRTC0E,WCRTC16,NT113
,NT112,NT111,NT110,WCRTC12,CRTAQ3,CRTAQ5,WCRTC14
,NT115,NT114,WCRTC15,WCRTC13,CRTC10,CRTC11 ) = CRTDC ( R3D715Q1
,R3D715Q2,R3D715Q3,IOEN2,IOWR2,IDIN0,IDIN1,IDIN2
,IDIN3,IDIN4,IDIN5,EIO3BD45,NRESET,IOCMDWR,PNADDR00
,WCRT0T7P,CRT010X ) $
RB173( DATAIN00,DATAIN01,DATAIN02,DATAIN03,DATAIN04,DATAIN05
,DATAIN06
,DATAIN07,DATAIN08,DATAIN09,DATAIN10,DATAIN11,DATAIN12,DATAIN13
,DATAIN14,DATAIN15 ) = DATMX1 ( IDIN0,IDIN1,IDIN2,IDIN3,IDIN4
,IDIN5,IDIN6,IDIN7,IDIN8,IDIN9,IDIN10,IDIN11
,IDIN12,IDIN13,IDIN14,IDIN15,AMUXEN,BMUXEN ) $
P17A8( NBHE, ) = TLCHT ( BHE,NC/0/ ) $
P2A29( POP2A29 ) = ND3 ( IVGACMD,OP11A6,IOWR2 ) $
P2A29G( ,OP2A29 ) = B2I ( POP2A29 ) $
RB382( SOFF ) = IV ( NSOFF ) $
EMGEN( EMBLK ) = ND2 ( E6845,R3B8Q5 ) $
NSGEN( NSOFF ) = A06 ( E6845,R3B8NQ3,SCROFF ) $
HERON( HERONNZ ) = ND2 ( R3D714Q0,R3D714Q1 ) $

```

HERGRF(HERGRFNZ) = ND2 (R3BFQ0,R3B8Q1) \$
 GGAON(CGAONNZ) = ND2 (R3D714Q0,NT64) \$
 CGA80(GCA80NZ) = NR2 (R3B8Q0,R3B8Q4) \$
 RB248(NHERGR) = IV (HERGRAZ) \$
 RB249(HERGRAZ) = NR2P (HERONNZ,HERGRFNZ) \$
 RB250(HERGRFZ) = IV (HERGRFNZ) \$
 RB252(HERTEX) = NR2 (HERONNZ,HERGRFZ) \$
 CGA2G(CGASL2) = NR2 (CGAONNZ,R3B8NQ4) \$
 SHFADJ(MCRT8Q5) = OR2 (CRT8Q5,CGASL2) \$
 CGA2GN(CGASL2N) = NR2 (CGASL2,HERGRAZ) \$
 CGA1G(CGASL1) = NR3 (CGAONNZ,R3B8Q4,R3B8NQ1) \$
 CGA1GN(CGASL1N) = IV (CGASL1) \$
 RB240(GCA80Z) = IV (GCA80NZ) \$
 GCAD2S(GCAD2) = NR2 (CGAONNZ,GCA80Z) \$
 RB443(VGAMOD) = OR3 (HERGRAZ,GCAD2,VGAFPZ) \$
 RB442(VGAMODO) = OR3 (HERGRAZ,GCAD2,CGASL2) \$
 CHANS(CHAN) = OR2 (HERGRAZ,CGASL2) \$
 CGATEX(CGATEXZ) = NR2 (CGAONNZ,R3B8Q1) \$
 TEXTS(TEXT) = OR2 (CGATEXZ,HERTEX) \$
 RB397(TWOPAG) = NR2 (HERONNZ,R3BFNQ1) \$
 RB319(NTWOPAG) = IV (TWOPAG) \$
 PAGE2S(PAGE2) = AN2 (TWOPAG,R3B8Q7) \$
 E6845N(E6845) = IV (NE6845) \$
 GSTP3(STP348) = AN2 (D3C13QP,HERGRAZ) \$
 E6845S(NE6845) = NR2 (R3D714Q0,R3D714Q1) \$
 P7AA1(OP7AA1) = NR6P (OP13A1,OP7A18A,R3D6Q4,R3D6Q3,R3D6Q2
 ,R3D6Q1
) \$
 P7AA2(OP7AA2) = NR6P (OP13A1,OP7A18A,R3D6Q4,R3D6Q3,R3D6Q2
 ,R3D6NQ1
) \$
 P7AA3(OP7AA3) = NR6P (OP13A1,OP7A18A,R3D6Q4,R3D6NQ3
 ,R3D6Q2,R3D6Q1
) \$
 P7AA4(OP7AA4) = NR6P (OP13A1,OP7A18A,R3D6NQ4,R3D6Q3
 ,R3D6NQ2,R3D6Q1
) \$
 P7AA6(OP7AA6) = NR6P (OP13A1,OP7AA5,R3D6NQ4,R3D6NQ3
 ,R3D6NQ2,R3D6NQ1
) \$
 P7AA8(OP7AA8) = NR5P (OP13A1,OP7AA7,R3D6Q4,R3D6NQ3,R3D6Q2) \$
 P7AA5(OP7AA5) = ND3 (R3D6NQ7,R3D6Q6,R3D6Q5) \$
 E3D9A(AEN3D9) = AN2 (EN3D9,EN3D77E) \$
 E3D77E(EN3D77E) = ND2 (OP7AA6,R3D6NQ0) \$
 P7AA7(OP7AA7) = ND3 (R3D6NQ7,R3D6NQ6,R3D6Q5) \$
 P7AA9(EN3D700) = ND2 (OP7AA1,R3D6NQ0) \$
 P7AA10(EN3D701) = ND2 (OP7AA1,R3D6Q0) \$
 P7AA11(EN3D702) = ND2 (OP7AA2,R3D6NQ0) \$
 P7AA12(EN3D703) = ND2 (OP7AA2,R3D6Q0) \$
 P7AA13(EN3D708) = ND2 (OP7AA3,R3D6NQ0) \$
 P7AA14(EN3D709) = ND2 (OP7AA3,R3D6Q0) \$
 P7AA15(EN3D714) = ND2 (OP7AA4,R3D6NQ0) \$
 P7AA16(EN3D715) = ND2 (OP7AA4,R3D6Q0) \$
 P6A2B(WR3D9) = AN2 (AWR3D9,BWR3D9) \$
 P6A2A(BWR3D9) = ND2 (N3D7WR2,OP13A1C) \$
 P7AA17(EN3D77F) = ND3 (OP7AA6,R3D6Q0,ADDR00) \$
 P7AA18(EN3D728) = ND4 (OP7AA8,R3D6NQ0,R3D6NQ1,ADDR00) \$
 P7AA19(EN3D72B) = ND4 (OP7AA8,R3D6Q0,R3D6Q1,ADDR00) \$
 RB334(WR3D728) = ND4 (OP7AA8,R3D6NQ0,R3D6NQ1,N3D7WR2) \$
 RB335(WR3D72B) = ND4P (OP7AA8,R3D6Q0,R3D6Q1,N3D7WR2) \$
 P1234S(ENR34) = AN2 (OP12A7,OP12A8) \$
 RD1034(R34Q0,R34Q1,R34Q2,R34Q3,R34Q4,R34Q5,R34Q6

```

, R34Q7 ) = READ2I ( R103Q0, R103Q1, R103Q2, R103Q3, R103Q4, R103Q5
, R103Q6, R103Q7, NC/1/, NC/0/, NC/1/, NC/0/, NC/0/
, NC/1/, NC/0/, NC/1/, OP12A8, OP12A7 ) $
PG31A2( N3D7M10, N3D7M11, N3D7M12, N3D7M13, N3D7M14, N3D7M15, N3D7M16
, N3D7M17 ) = RED8L1 ( R3D716Q0, R3D716Q1, R3D716Q2, R3D716Q3
, R3D716Q4, R3D716Q5
, NC/0/, NC/0/, R3D717Q0, R3D717Q1, R3D717Q2, R3D717Q3, R3D717Q4
, R3D717Q5, NC/0/, NC/0/, R3D728Q0, R3D728Q1, R3D728Q2, R3D728Q3
, NC/0/, NC/0/, NC/0/, NC/0/, R3D72BQ0, R3D72BQ1, R3D72BQ2
, R3D72BQ3, R3D72BQ4, R3D72BQ5, R3D72BQ6, R3D72BQ7, R3D77FQ0, R3D77FQ1
, R3D77FQ2, R3D77FQ3, R3D77FQ4, R3D77FQ5, R3D77FQ6, R3D77FQ7, NC/0/
, NC/0/, NC/0/, NC/0/, NC/0/, NC/0/, NC/0/, NC/0/
, NC/0/, NC/0/, NC/0/, NC/0/, NC/0/, NC/0/, NC/0/
, NC/0/, R34Q0, R34Q1, R34Q2, R34Q3, R34Q4, R34Q5
, R34Q6, R34Q7, EN3D716, EN3D717, EN3D728, EN3D72B, EN3D77F
, NC/1/, NC/1/, ENR34 ) $
RB258( NKILL1I, NKILL1, STRCHM, STRCHP, EQHDES, EQHDEE, STRCHML
, STRCHPL, NKILLLOW, VPDISP0, SL480 ) = HVC1 ( CLLCLOWL
, DSPTD2, EQMAXSL
, MAXSL3, NVERDE7, HCONT0, HCONT1, HCONT2, HCONT3, HCONT4
, HCONT5, HCONT6, HCONT7, T400B0, T400B1, T400B2, T400B3
, T400B4, TA350B0, TA350B1, TA350B2, TA350B3, TA350B4, TB350B0
, TB350B1, TB350B2, TB350B3, TB350B4, G400B0, G400B1, G400B2
, G400B3, G400B4, G400B5, G400B6, G350B0, G350B1, G350B2
, G350B3, G350B4, G350B5, G350B6, AHORB0, AHORB1, AHORB2
, AHORB3, AHORB4, AHORB5, AHORB6, AHORB7, AHORBE0, AHORBE1
, AHORBE2, AHORBE3, AHORBE4, AHORBE5, AHORBE6, AHORBE7, HVCVDE
, GRAPHICS, ONCEPERH, DADTSEL, DUALPLD, VPU, VPL, VDSPLYEN
, NRESET, C3A16NQ, MASKL2, CLLCLOW, NC/1/, DCK2PNL, SL480N
, B4B1001, CHRCLK, AHCNRN, NC/0/ ) $
RB259( VPU, VPL ) = HVC2 ( VERCNT0, VERCNT1, VERCNT2, VERCNT3, VERCNT4
, VERCNT5, VERCNT6, VERCNT7, VERCNT8, VERCNT9, VDSA0, VDSA1
, VDSA2, VDSA3, VDSA4, VDSA5, VDSA6, VDSA7, VDSA8
, VDSA9, VDSB0, VDSB1, VDSB2, VDSB3, VDSB4, VDSB5
, VDSB6, VDSB7, VDSB8, VDSB9, VDEA0, VDEA1, VDEA2
, VDEA3, VDEA4, VDEA5, VDEA6, VDEA7, VDEA8, VDEA9
, VDEB0, VDEB1, VDEB2, VDEB3, VDEB4, VDEB5, VDEB6
, VDEB7, VDEB8, VDEB9, ONCEPERH, NVERDE7, DSPTD2, SL480
, D3A401 ) $
RASO( RASGEN, REFINCSL, REFINC ) = RASREF ( NCAS, CLKXX, SLEEPON
, NRESET
, REFINT0, REFINT1, REFINT2, REFINT3, REFINT4, REFINT5, REFINT6
, REFINT7, C3D501 ) $
FCG( , CC89SELN, NT83, DCK2DIV, SL480N ) = FLAGB ( NT46, OCC89SEL
, IBMCOMP, PD640, PD720, PL200, PL350, PL400, PL480
, HORDI5, ODCK2DIV, GRAPHICS, CRT07Q1, CRT07Q1, VERDE7, VERDE6
) $
BLK( IACDCLK, ATRBLINK, CSRBLINK ) = BLINKING ( NRESET, ONCEPERH
, NRESET, NATVVMX0
, D3A401, CLKCONT0, CLKCONT1, CLKCONT2, CLKCONT3, CLKCONT4, CLKCONT5
, CLKCONT6, CLKCONT7, BLNKRAT0, BLNKRAT1, BLNKRAT2, BLNKRAT3, BLNKRAT4
, BLNKRAT5, BLNKRAT6, BLNKRAT7, NC/1/ ) $
RB176( CLLCLOW, EQLOWCLK, ADRCNT00, ADRCNT01, ADRCNT02, ADRCNT03
, ADRCNT04
, ADRCNT05, ADRCNT06, ADRCNT07, ADRCNT08, ADRCNT09, ADRCNT10, ADRCNT11
, ADRCNT12, ADRCNT13, ADRCNT14, ADRCNT15, VERCNT0, VERCNT1, VERCNT2
, VERCNT3, VERCNT4, VERCNT5, VERCNT6, VERCNT7, VERCNT8, VERCNT9
, ROWCNT0, ROWCNT1, ROWCNT2, ROWCNT3, ROWCNT4, NT10, CLLCLOWL
, CURDSP, ULINE, CVC0, CVC1, CVC2, CVC3, CVC4
, CVC5, CVC6, CVC7, CVC8, CVC9 ) = DPC ( NRESET, ELC4
, ELC3, ELC2, ELC1, ELC0, VCNTLOW, DUALPLD, EVC9
, EVC8, EVC7, EVC6, EVC5, EVC4, EVC3, EVC2

```

```

, EVC1, EVC0, DADTSEL, LACCLA, D5H601, SADCLN, C3G1601
, OFFSETS7, OFFSETS6, OFFSETS5, OFFSETS4, OFFSETS3, OFFSETS2, OFFSETS1
, OFFSETS0, AOFSETZ, SADLCLK, STLN15, STLN14, STLN13, STLN12
, STLN11, STLN10, STLN9, STLN8, STLN7, STLN6, STLN5
, STLN4, STLN3, STLN2, STLN1, STLN0, EDAD15, EDAD14
, EDAD13, EDAD12, EDAD11, EDAD10, EDAD9, EDAD8, EDAD7
, EDAD6, EDAD5, EDAD4, EDAD3, EDAD2, EDAD1, EDAD0
, MAXSL0, MAXSL1, MAXSL2, MAXSL3, MAXSL4, DUALPLD, VCNTLOW
, D2H801, ONCEPERH, PAGE2, NRESET, C3C8Q, LCOMP, NCHRCLK
, FIX1Z, DADTSEL, B4F1901, NC/1/, C3F17Q, C5D601, ROWMSK
, VDEL, C4F1Q, C3F17Q, C4G1301, VPU, VCNTRSET, CHRCLK
, DUALPNL, DSPTD2 ) $
DCL( U4Z, DADTSEL, , HSYNCPNL, DUALPLD, SADLCLK, VCNTLOW
, SADCLN, UACCLA, LACCLA, HVCVDE, VDEL, MASKL, ROWMSK
, VDELN ) = DADC01 ( D2H801, VDSPLYEN, DUALPNL, NT83, C3A16NQ
, STRCHML
, OB4E4Q, NRESET, LCOMP, STRCHPL, ACCLA, NKILL1, NKILLLOW
) $
MK17( MAK17 ) = ND2 ( R3D70BQ1, R3D704Q2 ) $
SYNC( VSYNCOUT, HSYNCOUT ) = SYNCOUT ( C2B1701, XDHSYNC, PLASMA
, DSPTD2, NCHRCLK
) $
RB229( NT50 ) = OR2 ( NT49, SLEEPON ) $
RB230( D3F1601R ) = MUX21H ( D3F1601, REFINCN, SLEEPON ) $
RB231( REFINCN ) = IV ( REFINC ) $
RB233( SLEEPEN2, ) = YFD1 ( SLEEPENI, CLKXX ) $
RB234( SLEEPEN, ) = YFD1 ( SLEEPEN2, CLKXX ) $
RB235( , CHRESETN ) = YFD1 ( CHRESETI, IMCLK ) $
RB236( CHRESETQ, ) = FD1P ( CHRESETN, IMCLK ) $
RB22( IROMCSN ) = IV ( OP18A7 ) $
RB23( ROMCSN ) = BT2 ( IROMCSN, NC/0/, HIC5 ) $
RB232( GRAPHICS ) = IV ( ATT30Q0N ) $
END : MODULE $
END : COMPILE $
END : TDL $

```