```
/* File name Primary2.yal                                          */

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/* Primary2.yal (RPROC). This circuit is a 16-bit microprocessor.*/
/*                      It includes a sizeable register stack      */
/*                      and some large pieces of decode logic.     */
/*                                                                 */
/*  Rules: - May be layed out as either a gate array or            */
/*           standard circuit.                                     */
/*         - The required pad placement is given below.            */
/*         - For standard cell, the library is SClib.              */
/*         - For gate array, the library is GAClib.  The gate      */
/*           array parameters are (see GAClib library              */
/*           definition):                                          */
/*              Rows - 36                                          */
/*              Columns - 500 placement slots per row,             */
/*                        or 10000u long.                          */
/*              Pads - 36 each side.                               */
/*              Routing channels - 18 tracks each.                 */
/*                                                                 */
/*                                                                 */
/* Circuit statistics: 2907 internal cells, 107 signal pads,       */
/*                     3029 nets. (91.3% internal utilization      */
/*                     in gate array)                              */
/*                                                                 */

/* File name SCLib.yal                                          */

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/*                All rights reserved.                          */
/*                                                              */
/* Library: SCLib.yal                                           */
/*                                                              */
/* Technology: Standard cell, 2-metal routing.                  */
/*                                                              */
/* Design rules: Metal width, 4u, both levels.                  */
/*               Via size = 4u.                                 */
/*               Via oversize = 1u                              */
/*               Metal spacing = 5u (both levels).              */
/*                                                              */
/* Routing grid: 10u on both levels. Horizontally and           */
/*               vertically adjacent vias NOT allowed,          */
/*               but diagonally adjacent vias OK.               */
/*                                                              */
/* Cell characteristics:                                        */
/*                     Cell placements can abut, but not        */
/*                     overlap.  The legal orientations for     */
/*                     internal cell placements are normal      */
/*                     (RFLNONE ROT0) and reflected about Y     */
/*                     (RFLY ROT0).                             */
/*                                                              */
/*                     Over-cell feedthru paths are provided*/
/*                     in the cell definitions.  You should     */
/*                     indicate in your results whether or      */
/*                     not your system can make use of them.*/
/*                                                              */
/*                     Feedthrus external to cells must be      */
/*                     centered at least 5u from the near-      */
/*                     cell boundary.  A feedthru cell,         */
/*                     which can be abutted to cells is         */
/*                     provided in case your system re-         */
/*                     quires it.                               */
/*                                                              */
/*                     Pad cells are placed at 300u             */
/*                     increments.  Pad cell orientations       */
/*                     are: right side - RFLNONE ROT0           */
/*                          left side  - RFLY ROT0              */
/*                          top        - RFLY ROT270            */
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/*                          bottom      - RFLNONE ROT270     */
/*                                                           */
/*                                                           */
/*                                                           */
/* Cell FEED.  Feedthrough cell.                             */
/*                                                           */
MODULE FEED;
 TYPE FEEDTHROUGH;
 WIDTH 10;
 HEIGHT 150;
 IOLIST;
  F1  F  BOTTOM  5 4 METAL2;
  F1  F  TOP     5 4 METAL2;
 ENDIOLIST;
ENDMODULE;
/*                                                           */
/*                                                           */
/* Cell G11.  Combinational gate, 1 input, 1 output.         */
/*                                                           */
MODULE G11;
 TYPE STANDARD;
 WIDTH 30;
 HEIGHT 150;
 IOLIST;
  I1  I  BOTTOM  5 4 METAL2;
  I1  I  TOP     5 4 METAL2;
  O1  O  BOTTOM 15 4 METAL2;
  O1  O  TOP    15 4 METAL2;
  F1  F  BOTTOM 25 4 METAL2;
  F1  F  TOP    25 4 METAL2;
 ENDIOLIST;
ENDMODULE;
/*                                                           */
/*                                                           */
/* Cell G21.  Combinational gate, 2 inputs, 1 output.        */
/*                                                           */
MODULE G21;
 TYPE STANDARD;
 WIDTH 50;
 HEIGHT 150;
 IOLIST;
  I1  I  BOTTOM  5 4 METAL2;
  I1  I  TOP     5 4 METAL2;
  I2  I  BOTTOM 25 4 METAL2;
  I2  I  TOP    25 4 METAL2;
  O1  O  BOTTOM 35 4 METAL2;
  O1  O  TOP    35 4 METAL2;
  F2  F  BOTTOM 15 4 METAL2;
  F2  F  TOP    15 4 METAL2;
  F3  F  BOTTOM 45 4 METAL2;
  F3  F  TOP    45 4 METAL2;
 ENDIOLIST;
ENDMODULE;
/*                                                           */
/*                                                           */
/* Cell G31.  Combinational gate, 3 inputs, 1 output.        */
/*                                                           */
MODULE G31;
 TYPE STANDARD;
 WIDTH 60;
 HEIGHT 150;
 IOLIST;
  I1  I  BOTTOM  5 4 METAL2;
  I1  I  TOP     5 4 METAL2;
  I2  I  BOTTOM 15 4 METAL2;
  I2  I  TOP    15 4 METAL2;
  I3  I  BOTTOM 35 4 METAL2;
  I3  I  TOP    35 4 METAL2;
  O1  O  BOTTOM 45 4 METAL2;
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   O1  O  TOP    45 4 METAL2;
   F2  F  BOTTOM 55 4 METAL2;
   F2  F  TOP    55 4 METAL2;
 ENDIOLIST;
ENDMODULE;
/*                                                          */
/*                                                          */
/* Cell G41.  Combinational gate, 4 inputs, 1 output.       */
/*                                                          */
MODULE G41;
 TYPE STANDARD;
 WIDTH  70;
 HEIGHT 150;
 IOLIST;
  I1  I  BOTTOM  5 4 METAL2;
  I1  I  TOP     5 4 METAL2;
  I2  I  BOTTOM 15 4 METAL2;
  I2  I  TOP    15 4 METAL2;
  I3  I  BOTTOM 35 4 METAL2;
  I3  I  TOP    35 4 METAL2;
  I4  I  BOTTOM 45 4 METAL2;
  I4  I  TOP    45 4 METAL2;
  O1  O  BOTTOM 55 4 METAL2;
  O1  O  TOP    55 4 METAL2;
  F2  F  BOTTOM 65 4 METAL2;
  F2  F  TOP    65 4 METAL2;
 ENDIOLIST;
ENDMODULE;
/*                                                          */
/*                                                          */
/* Cell G61.  Combinational gate, 6 inputs, 1 output.       */
/*                                                          */
MODULE G61;
 TYPE STANDARD;
 WIDTH 100;
 HEIGHT 150;
 IOLIST;
  I1  I  BOTTOM  5 4 METAL2;
  I1  I  TOP     5 4 METAL2;
  I2  I  BOTTOM 15 4 METAL2;
  I2  I  TOP    15 4 METAL2;
  I3  I  BOTTOM 35 4 METAL2;
  I3  I  TOP    35 4 METAL2;
  I4  I  BOTTOM 45 4 METAL2;
  I4  I  TOP    45 4 METAL2;
  I5  I  BOTTOM 65 4 METAL2;
  I5  I  TOP    65 4 METAL2;
  I6  I  BOTTOM 75 4 METAL2;
  I6  I  TOP    75 4 METAL2;
  O1  O  BOTTOM 85 4 METAL2;
  O1  O  TOP    85 4 METAL2;
  F1  F  BOTTOM 25 4 METAL2;
  F1  F  TOP    25 4 METAL2;
  F2  F  BOTTOM 95 4 METAL2;
  F2  F  TOP    95 4 METAL2;
 ENDIOLIST;
ENDMODULE;
/*                                                          */
/*                                                          */
/* Cell G81.  Combinational gate, 8 inputs, 1 output.       */
/*                                                          */
MODULE G81;
 TYPE STANDARD;
 WIDTH 160;
 HEIGHT 150;
 IOLIST;
  I1  I  BOTTOM  5 4 METAL2;
  I1  I  TOP     5 4 METAL2;
  I2  I  BOTTOM 15 4 METAL2;
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   I2  I  TOP    15 4 METAL2;
   I3  I  BOTTOM 25 4 METAL2;
   I3  I  TOP    25 4 METAL2;
   I4  I  BOTTOM 35 4 METAL2;
   I4  I  TOP    35 4 METAL2;
   I5  I  BOTTOM 115 4 METAL2;
   I5  I  TOP    115 4 METAL2;
   I6  I  BOTTOM 125 4 METAL2;
   I6  I  TOP    125 4 METAL2;
   I7  I  BOTTOM 135 4 METAL2;
   I7  I  TOP    135 4 METAL2;
   I8  I  BOTTOM 145 4 METAL2;
   I8  I  TOP    145 4 METAL2;
   O1  O  BOTTOM 75  4 METAL2;
   O1  O  TOP    75  4 METAL2;
   F1  F  BOTTOM 45 4 METAL2;
   F1  F  TOP    45 4 METAL2;
   F2  F  BOTTOM 55 4 METAL2;
   F2  F  TOP    55 4 METAL2;
   F3  F  BOTTOM 85 4 METAL2;
   F3  F  TOP    85 4 METAL2;
   F4  F  BOTTOM 155 4 METAL2;
   F4  F  TOP    155 4 METAL2;
  ENDIOLIST;
 ENDMODULE;
 /*                                                          */
 /*                                                          */
 /* Cell G12.  Combinational gate, 1 input, 2 outputs.       */
 /*                                                          */
 MODULE G12;
  TYPE STANDARD;
  WIDTH  60;
  HEIGHT 150;
  IOLIST;
   I1  I  BOTTOM  5 4 METAL2;
   I1  I  TOP     5 4 METAL2;
   O1  O  BOTTOM 35 4 METAL2;
   O1  O  TOP    35 4 METAL2;
   O2  O  BOTTOM 45 4 METAL2;
   O2  O  TOP    45 4 METAL2;
   F1  F  BOTTOM 15 4 METAL2;
   F1  F  TOP    15 4 METAL2;
   F2  F  BOTTOM 55 4 METAL2;
   F2  F  TOP    55 4 METAL2;
  ENDIOLIST;
 ENDMODULE;
 /*                                                          */
 /*                                                          */
 /* Cell F22.  Sequential function 2 inputs, 2 outputs.      */
 /*                                                          */
 MODULE F22;
  TYPE STANDARD;
  WIDTH  140;
  HEIGHT 150;
  IOLIST;
   I1  I  BOTTOM 15 4 METAL2;
   I1  I  TOP    15 4 METAL2;
   I2  I  BOTTOM 45 4 METAL2;
   I2  I  TOP    45 4 METAL2;
   O1  O  BOTTOM 105 4 METAL2;
   O1  O  TOP    105 4 METAL2;
   O2  O  BOTTOM 125 4 METAL2;
   O2  O  TOP    125 4 METAL2;
   F1  F  BOTTOM  5 4 METAL2;
   F1  F  TOP     5 4 METAL2;
   F2  F  BOTTOM 35 4 METAL2;
   F2  F  TOP    35 4 METAL2;
   F3  F  BOTTOM 75 4 METAL2;
   F3  F  TOP    75 4 METAL2;
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   F4  F  BOTTOM 95 4 METAL2;
   F4  F  TOP    95 4 METAL2;
   F5  F  BOTTOM 115 4 METAL2;
   F5  F  TOP    115 4 METAL2;
   F6  F  BOTTOM 135 4 METAL2;
   F6  F  TOP    135 4 METAL2;
 ENDIOLIST;
ENDMODULE;
/*                                                          */
/*                                                          */
/* Cell F32.  Sequential function 3 inputs, 2 outputs.      */
/*                                                          */
MODULE F32;
 TYPE STANDARD;
 WIDTH  200;
 HEIGHT 150;
 IOLIST;
  I1  I  BOTTOM 15 4 METAL2;
  I1  I  TOP    15 4 METAL2;
  I2  I  BOTTOM 55 4 METAL2;
  I2  I  TOP    55 4 METAL2;
  I3  I  BOTTOM 95  4 METAL2;
  I3  I  TOP    95  4 METAL2;
  O1  O  BOTTOM 155 4 METAL2;
  O1  O  TOP    155 4 METAL2;
  O2  O  BOTTOM 175 4 METAL2;
  O2  O  TOP    175 4 METAL2;
  F1  F  BOTTOM  5 4 METAL2;
  F1  F  TOP     5 4 METAL2;
  F2  F  BOTTOM 35 4 METAL2;
  F2  F  TOP    35 4 METAL2;
  F3  F  BOTTOM 65 4 METAL2;
  F3  F  TOP    65 4 METAL2;
  F4  F  BOTTOM 85 4 METAL2;
  F4  F  TOP    85 4 METAL2;
  F5  F  BOTTOM 115 4 METAL2;
  F5  F  TOP    115 4 METAL2;
  F6  F  BOTTOM 135 4 METAL2;
  F6  F  TOP    135 4 METAL2;
  F7  F  BOTTOM 195 4 METAL2;
  F7  F  TOP    195 4 METAL2;
 ENDIOLIST;
ENDMODULE;
/*                                                          */
/*                                                          */
/* Cell F42.  Sequential function 4 inputs, 2 outputs.      */
/*                                                          */
MODULE F42;
 TYPE STANDARD;
 WIDTH  200;
 HEIGHT 150;
 IOLIST;
  I1  I  BOTTOM 15 4 METAL2;
  I1  I  TOP    15 4 METAL2;
  I2  I  BOTTOM 55 4 METAL2;
  I2  I  TOP    55 4 METAL2;
  I3  I  BOTTOM 95  4 METAL2;
  I3  I  TOP    95  4 METAL2;
  I4  I  BOTTOM 125 4 METAL2;
  I4  I  TOP    125 4 METAL2;
  O1  O  BOTTOM 155 4 METAL2;
  O1  O  TOP    155 4 METAL2;
  O2  O  BOTTOM 175 4 METAL2;
  O2  O  TOP    175 4 METAL2;
  F1  F  BOTTOM  5 4 METAL2;
  F1  F  TOP     5 4 METAL2;
  F2  F  BOTTOM 35 4 METAL2;
  F2  F  TOP    35 4 METAL2;
  F3  F  BOTTOM 85 4 METAL2;
```

```
   F3  F  TOP    85 4 METAL2;
   F4  F  BOTTOM 115 4 METAL2;
   F4  F  TOP    115 4 METAL2;
   F5  F  BOTTOM 135 4 METAL2;
   F5  F  TOP    135 4 METAL2;
   F6  F  BOTTOM 165 4 METAL2;
   F6  F  TOP    165 4 METAL2;
   F7  F  BOTTOM 195 4 METAL2;
   F7  F  TOP    195 4 METAL2;
  ENDIOLIST;
 ENDMODULE;
 /*                                                          */
 /*                                                          */
 /* Cell I1.  Input pad cell, 1 output.                      */
 /*                                                          */
 MODULE I1;
  TYPE PAD;
  WIDTH 600;
  HEIGHT 300;
  IOLIST;
   I1  PI RIGHT 150 0 METAL2;
   O1  O  LEFT  155 4 METAL1;
  ENDIOLIST;
 ENDMODULE;
 /*                                                          */
 /*                                                          */
 /* Cell I2.  Input pad cell, 2 outputs.                     */
 /*                                                          */
 MODULE I2;
  TYPE PAD;
  WIDTH 600;
  HEIGHT 300;
  IOLIST;
   I1  PI RIGHT 150 0 METAL2;
   O1  O  LEFT  145 4 METAL1;
   O2  O  LEFT  165 4 METAL1;
  ENDIOLIST;
 ENDMODULE;
 /*                                                          */
 /*                                                          */
 /* Cell O1.  Output pad cell, 1 input.                      */
 /*                                                          */
 MODULE O1;
  TYPE PAD;
  WIDTH 600;
  HEIGHT 300;
  IOLIST;
   I1  I  LEFT  155 4 METAL1;
   O1  PO RIGHT 150 0 METAL2;
  ENDIOLIST;
 ENDMODULE;
 /*                                                          */
 /*                                                          */
 /* Cell O2.  Output pad cell, 2 inputs.                     */
 /*                                                          */
 MODULE O2;
  TYPE PAD;
  WIDTH 600;
  HEIGHT 300;
  IOLIST;
   I1  I  LEFT  145 4 METAL1;
   I2  I  LEFT  165 4 METAL1;
   O1  PO RIGHT 150 0 METAL2;
  ENDIOLIST;
 ENDMODULE;
 /*                                                          */
 /*                                                          */
 /* Cell B21.  Bidirectional pad cell, 2 inputs, 1 output.   */
 /*                                                          */
```

```
MODULE B21;
 TYPE PAD;
 WIDTH 600;
 HEIGHT 300;
 IOLIST;
  I1  I  LEFT  145 4 METAL1;
  I2  I  LEFT  155 4 METAL1;
  O1  O  LEFT  165 4 METAL1;
  B1  PB RIGHT 150 0 METAL2;
 ENDIOLIST;
ENDMODULE;


MODULE RPROC ;
TYPE PARENT ;
WIDTH 10500;
HEIGHT 10500;
IOLIST ;
S3  PI RIGHT  1800 ;
S4  PI RIGHT  2100 ;
S5  PI RIGHT  1500 ;
S6  PI RIGHT  2400 ;
S7  PI BOTTOM 5700 ;
S8  PI BOTTOM 6000 ;
S9  PI BOTTOM 6300 ;
S10 PI BOTTOM 6600 ;
S11 PI BOTTOM 6900 ;
S12 PI BOTTOM 7200 ;
S13 PI BOTTOM 7800 ;
S14 PI BOTTOM 7500 ;
S15 PI RIGHT  1200 ;
S16 PI BOTTOM 9900 ;
S17 PI BOTTOM 9300 ;
S18 PI TOP       0 ;
S19 PI TOP    7200 ;
S20 PI TOP    6900 ;
S21 PI BOTTOM 8700 ;
S22 PI TOP    10500 ;
S23 PI LEFT      0 ;
S24 PI LEFT    600 ;
S25 PI LEFT   1200 ;
S26 PI LEFT   1500 ;
S27 PI LEFT   1800 ;
S28 PI LEFT   2100 ;
S29 PI LEFT   2400 ;
S30 PI LEFT   2700 ;
S31 PI LEFT   3000 ;
S32 PI LEFT   3300 ;
S33 PI LEFT   3600 ;
S34 PI LEFT   3900 ;
S35 PI LEFT   4200 ;
S36 PI LEFT   4500 ;
S37 PI LEFT   4800 ;
S38 PI RIGHT   900 ;
S39 PI BOTTOM 9000 ;
S40 PI BOTTOM 8400 ;
S41 PI BOTTOM 8100 ;
S42 PI TOP    6300 ;
S43 PO RIGHT  9900 ;
S44 PO RIGHT  9300 ;
S45 PO RIGHT  9000 ;
S46 PO RIGHT  8700 ;
S47 PO RIGHT  8400 ;
S48 PO RIGHT  8100 ;
S49 PO RIGHT  7800 ;
S50 PO RIGHT  7500 ;
S51 PO RIGHT  7200 ;
S52 PO RIGHT  6900 ;
S53 PO RIGHT  6600 ;
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S54 PO RIGHT  6300 ;
S55 PO RIGHT  6000 ;
S56 PO RIGHT  5700 ;
S57 PO RIGHT  4800 ;
S58 PO RIGHT  4500 ;
S59 PO RIGHT  4200 ;
S60 PO TOP    7500 ;
S61 PO TOP    7800 ;
S62 PO TOP    8100 ;
S63 PO TOP    8400 ;
S64 PO RIGHT  2700 ;
S65 PO RIGHT  10500 ;
S66 PO RIGHT  3900 ;
S67 PO RIGHT  3000 ;
S68 PO RIGHT   600 ;
S69 PO RIGHT  3300 ;
S70 PO RIGHT     0 ;
S71 PO TOP    8700 ;
S72 PO TOP    9000 ;
S73 PO TOP    9300 ;
S74 PO TOP    9600 ;
S75 PO TOP     600 ;
S76 PO TOP    1200 ;
S77 PO TOP    1500 ;
S78 PO TOP    1800 ;
S79 PO TOP    2100 ;
S80 PO TOP    2400 ;
S81 PO TOP    2700 ;
S82 PO TOP    3000 ;
S83 PO TOP    3300 ;
S84 PO TOP    3600 ;
S85 PO TOP    3900 ;
S86 PO TOP    4200 ;
S87 PO TOP    4500 ;
S88 PO TOP    4800 ;
S89 PO TOP    5700 ;
S90 PO TOP    6000 ;
S91 PO TOP    6600 ;
S92 PO RIGHT  3600 ;
S93 PO BOTTOM  900 ;
S94 PB LEFT   6000 ;
S95 PB LEFT   6300 ;
S96 PB LEFT   6600 ;
S97 PB LEFT   6900 ;
S98 PB LEFT   7200 ;
S99 PB LEFT   7500 ;
S100 PB LEFT  7800 ;
S101 PB LEFT  8100 ;
S102 PB LEFT  8400 ;
S103 PB LEFT  8700 ;
S104 PB LEFT  9000 ;
S105 PB LEFT  9300 ;
S106 PB LEFT  9600 ;
S107 PB LEFT  9900 ;
S108 PB LEFT  10500 ;
S109 PB BOTTOM 10500 ;
ENDIOLIST ;
NETWORK ;
C1 I2 S8 U1 S111 ;
C2 I2 S9 U2 S113 ;
C3 I2 S10 U3 S115 ;
C4 I2 S11 U4 S117 ;
C5 I2 S12 U5 S119 ;
C6 I2 S13 U6 S121 ;
C7 I2 S14 U7 S123 ;
C8 I2 S41 U8 S125 ;
C9 I2 S40 U9 S127 ;
C10 I2 S4 S128 U10 ;
C11 I2 S6 S130 U11 ;
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C12 I2 S19 U12 S133 ;
C13 I2 S42 U13 S135 ;
C14 I2 S20 U14 S137 ;
C15 I2 S15 U15 S139 ;
C16 I2 S17 S140 U16 ;
C17 I2 S16 S142 U17 ;
C18 I2 S3 S144 S145 ;
C19 I2 S39 U18 S147 ;
C20 I2 S21 U19 S149 ;
C21 I2 S7 U20 S151 ;
C22 G11 S152 S153 ;
C23 G11 S152 S154 ;
C24 G11 S155 S156 ;
C25 G11 S156 S157 ;
C26 G11 S156 S158 ;
C27 G11 S159 S160 ;
C28 G11 S135 S161 ;
C29 G11 S162 S163 ;
C30 G11 S164 S165 ;
C31 G11 S166 S167 ;
C32 G11 S168 S169 ;
C33 I2 S5 U21 S171 ;
C34 G11 S172 S152 ;
C35 G11 S152 S173 ;
C36 O1 S174 S93 ;
C37 O1 S175 S68 ;
C38 G11 S176 S175 ;
C39 B21 S157 S177 S178 S94 ;
C40 B21 S157 S179 S180 S95 ;
C41 B21 S157 S181 S182 S96 ;
C42 B21 S157 S183 S184 S97 ;
C43 B21 S157 S185 S186 S98 ;
C44 B21 S157 S187 S188 S99 ;
C45 B21 S157 S189 S190 S100 ;
C46 B21 S157 S191 S192 S101 ;
C47 O2 S153 S193 S43 ;
C48 O2 S153 S194 S44 ;
C49 O2 S153 S195 S45 ;
C50 O2 S153 S196 S46 ;
C51 O2 S153 S197 S47 ;
C52 O2 S153 S198 S48 ;
C53 O2 S153 S199 S49 ;
C54 O2 S153 S200 S50 ;
C55 G11 S201 S202 ;
C56 G21 S201 S162 S155 ;
C57 O2 S153 S172 S65 ;
C58 O2 S153 S202 S66 ;
C59 O2 S173 S172 S59 ;
C60 O2 S154 S203 S71 ;
C61 O2 S154 S204 S72 ;
C62 O2 S154 S205 S73 ;
C63 O2 S154 S206 S74 ;
C64 O2 S154 S207 S60 ;
C65 O2 S154 S208 S61 ;
C66 O2 S154 S209 S62 ;
C67 O2 S154 S210 S63 ;
C68 B21 S158 S211 S212 S102 ;
C69 B21 S158 S213 S214 S103 ;
C70 B21 S158 S215 S216 S104 ;
C71 B21 S158 S217 S218 S105 ;
C72 B21 S158 S219 S220 S106 ;
C73 B21 S158 S221 S222 S107 ;
C74 B21 S158 S223 S224 S108 ;
C75 B21 S158 S225 S226 S109 ;
C76 O2 S173 S227 S51 ;
C77 O2 S173 S228 S52 ;
C78 O2 S173 S229 S53 ;
C79 O2 S173 S230 S54 ;
C80 O2 S173 S231 S55 ;
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C81 O2 S173 S232 S56 ;
C82 O2 S173 S233 S57 ;
C83 O2 S173 S234 S58 ;
C84 O1 S169 S64 ;
C85 I2 S22 U22 S236 ;
C86 I2 S23 U23 S238 ;
C87 I2 S32 U24 S240 ;
C88 I2 S33 U25 S242 ;
C89 I2 S34 U26 S244 ;
C90 I2 S35 U27 S246 ;
C91 I2 S36 U28 S248 ;
C92 I2 S37 U29 S250 ;
C93 I2 S24 U30 S252 ;
C94 I2 S25 U31 S254 ;
C95 I2 S26 U32 S256 ;
C96 I2 S27 U33 S258 ;
C97 I2 S28 U34 S260 ;
C98 I2 S29 U35 S262 ;
C99 I2 S30 U36 S264 ;
C100 I2 S31 U37 S266 ;
C101 I2 S38 U38 S164 ;
C102 O2 S154 S167 S67 ;
C103 O2 S154 S163 S92 ;
C104 O2 S154 S160 S69 ;
C105 O2 S161 S268 S75 ;
C106 O2 S161 S269 S76 ;
C107 O2 S161 S270 S85 ;
C108 O2 S161 S271 S86 ;
C109 O2 S161 S272 S87 ;
C110 O2 S161 S273 S88 ;
C111 O2 S161 S274 S89 ;
C112 O2 S161 S275 S90 ;
C113 O2 S161 S276 S77 ;
C114 O2 S161 S277 S78 ;
C115 O2 S161 S278 S79 ;
C116 O2 S161 S279 S80 ;
C117 O2 S161 S280 S81 ;
C118 O2 S161 S281 S82 ;
C119 O2 S161 S282 S83 ;
C120 O2 S161 S283 S84 ;
C121 O1 S284 S91 ;
C122 G11 S177 S285 ;
C123 G11 S179 S286 ;
C124 G11 S215 S287 ;
C125 G11 S217 S288 ;
C126 G11 S219 S289 ;
C127 G11 S221 S290 ;
C128 G11 S223 S291 ;
C129 G11 S225 S292 ;
C130 G11 S181 S293 ;
C131 G11 S183 S294 ;
C132 G11 S185 S295 ;
C133 G11 S187 S296 ;
C134 G11 S189 S297 ;
C135 G11 S191 S298 ;
C136 G11 S211 S299 ;
C137 G11 S213 S300 ;
C138 G21 S800 S459 S801 ;
C139 G21 S802 S460 S528 ;
C140 G21 S460 S803 S527 ;
C141 G21 S804 S461 S805 ;
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