

```
1  VHDL-kode
2
3  1.1 – SigGenTop
4  -----
5  -- Company:
6  -- Engineer: Ulrik Dan Hansen & Victor Strauss
7  --
8  -- Create Date: 13:19:32 08/03/2020
9  -- Design Name:
10 -- Module Name: SigGenTop - Behavioral
11 -- Project Name:
12 -- Target Devices:
13 -- Tool versions:
14 -- Description:
15 --
16 -- Dependencies:
17 --
18 -- Revision:
19 -- Revision 0.01 - File Created
20 -- Additional Comments:
21 --
```

```

22  -----
23  library IEEE;
24  use IEEE.STD_LOGIC_1164.ALL;
25
26  -- Uncomment the following library declaration if using
27  -- arithmetic functions with Signed or Unsigned values
28  --use IEEE.NUMERIC_STD.ALL;
29
30  -- Uncomment the following library declaration if instantiating
31  -- any Xilinx primitives in this code.
32  --library UNISIM;
33  --use UNISIM.VComponents.all;
34
35  entity SigGenTop is
36      Port ( Reset   : in std_logic;
37            Clk      : in std_logic;
38            SCK      : in STD_LOGIC;
39            MOSI      : in STD_LOGIC;
40            SS        : in STD_LOGIC;
41            An        : out std_logic_vector(3 downto 0);
42            Cat        : out std_logic_vector(7 downto 0);

```

```

43     LED                : out std_logic_vector(7 downto 0);
44     PWMOut : out std_logic);
45 end SigGenTop;
46
47 architecture Behavioral of SigGenTop is
48
49 -- Intern signals
50 signal Mclk, DispClk, SigEn: std_logic;
51 signal Disp: std_logic_vector(19 downto 0);
52 signal Ampl, Freq: std_logic_vector(7 downto 0);
53 signal Shape: std_logic_vector(1 downto 0);
54
55 begin
56 -- Sub-components
57 U0: entity WORK.DivClk
58     port map(Reset => Reset, Clk => Clk, TimeP => 4, Clk1 => Mclk);
59
60 U4: entity WORK.DivClk
61     port map(Reset => Reset, Clk => Clk, TimeP => 50e3, Clk1 => DispClk);
62
63 U1: entity WORK.SigGenControl

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64     port map(Reset => Reset, SCK => SCK, Clk => MClk, MOSI => MOSI, SS => SS,
65             Disp => Disp, Shape => Shape, Ampl => Ampl, Freq => Freq, SigEN => SigEN, LED => LED);
66
67 U2: entity WORK.SigGenDataPath generic map (PWMinc => '1')
68     port map(Reset => Reset, Clk => Mclk, Shape => Shape, Ampl => Ampl, Freq => Freq, SigEN=> SigEN, PWMOut => PWMOut);
69
70 U3: entity WORK.SevenSeg5
71     port map(Reset => Reset, Clk => DispClk, Data => Disp, An => An, Cat => Cat);
72
73 end Behavioral;
74
75 1.2 - U2 & U0 – ClkDiv
76 -----
77 -- Company:
78 -- Engineer: Ulrik Dan Hansen & Victor Strauss
79 --
80 -- Create Date: 13:29:35 08/03/2020
81 -- Design Name:
82 -- Module Name: ClkDiv - Behavioral
83 -- Project Name:
84 -- Target Devices:

```

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85  -- Tool versions:
86  -- Description:
87  --
88  -- Dependencies:
89  --
90  -- Revision:
91  -- Revision 0.01 - File Created
92  -- Additional Comments:
93  --
94  -----
95
96  ----- Clock divider -----
97  library IEEE;
98  use IEEE.std_logic_1164.all;
99  use IEEE.STD_LOGIC_ARITH.ALL;
100 use IEEE.STD_LOGIC_UNSIGNED.ALL;
101
102 entity DivClk is
103     port ( Reset: in STD_LOGIC;  -- Global Reset (BTN1)
104           Clk: in STD_LOGIC;    -- Master Clock (50 MHz)
105           TimeP: in integer;    -- Time periode of the divided clock (50e6)

```

```

106         Clk1: out STD_LOGIC); -- Divided clock1 (1 Hz)
107     end DivClk;
108
109     architecture DivClk_arch of DivClk is
110         --constant MaxCnt1: integer:= 14;
111         signal Cnt1: integer range 0 to 25000; -- 24 bit counter
112         signal Clear1: STD_LOGIC;
113         signal Clk1_D: STD_LOGIC;
114
115     begin
116
117         -- T-register with enable and async.reset
118         Div1Reg: process(clk,Reset)
119         begin
120             if Reset = '1' then Clk1_D <= '0'; -- async. reset
121             elsif (clk'event and clk='1') then
122                 if Clear1= '1' then -- enable
123                     Clk1_D <= not Clk1_D;
124                 end if;
125             end if;
126         end process Div1Reg;

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127
128   Div1Dec: process(Cnt1, TimeP) -- Kombinatorisk
129   begin
130       Clear1 <= '0';
131       if Cnt1 = TimeP/2 then
132           Clear1 <= '1';
133       end if;
134   end process Div1Dec;
135
136   -- 24 bit up-counter with clear and async. reset
137   Div1Cnt:process(clk,Reset)
138   begin
139       if Reset = '1' then Cnt1 <= 1;    -- async. reset
140       elsif (clk'event and clk ='1') then
141           if Clear1 = '1' then Cnt1 <= 1; -- clear
142           else Cnt1 <= Cnt1 + 1; end if;
143       end if;
144   end process Div1Cnt;
145
146   Clk1 <= Clk1_D;
147

```

```
148   end DivClk_arch;
149
150   1.3 – U1 – SigSpiGenControl
151
152   -----
153   -- Company:
154   -- Engineer: Ulrik Dan Hansen & Victor Strauss
155   --
156   -- Create Date: 13:39:34 08/03/2020
157   -- Design Name:
158   -- Module Name: SigGenControl - Behavioral
159   -- Project Name:
160   -- Target Devices:
161   -- Tool versions:
162   -- Description:
163   --
164   -- Dependencies:
165   --
166   -- Revision:
167   -- Revision 0.01 - File Created
168   -- Additional Comments:
```



```
169  --
170  -----
171  library IEEE;
172  use IEEE.STD_LOGIC_1164.ALL;
173  use IEEE.STD_LOGIC_ARITH.ALL;
174  use IEEE.STD_LOGIC_UNSIGNED.ALL;
175
176  entity SigGenControl is
177  Port ( Reset : in std_logic;
178        Clk   : in std_logic;
179        SCK   : in std_logic;
180        MOSI  : in std_logic;
181        SS    : in std_logic;
182        Disp  : out std_logic_vector(19 downto 0);
183        Shape : inout std_logic_vector(1 downto 0);
184        Ampl  : inout std_logic_vector(7 downto 0);
185        LED   : out std_logic_vector(7 downto 0);
186        Freq  : inout std_logic_vector(7 downto 0);
187        SigEn : out std_logic);
188  end SigGenControl;
189
```

```

190 architecture Behavioral of SigGenControl is
191
192   signal nextMOSI, nextA, nextF, Checksum: STD_LOGIC_VECTOR(7 downto 0);
193   signal nextS: STD_LOGIC_VECTOR(1 downto 0);
194   signal DispSel: STD_LOGIC_VECTOR(3 downto 0);
195   signal ShapeEN, AmplEN, FreqEN, RunEN, SSold, SSPuls: STD_LOGIC;
196   type StateType is (ShapeS, Ampls, FreqS, RunS, SyncS, ResetS, ChecksumS);
197   signal State, nState: StateType;
198
199   begin
200
201     -- Shift-register
202     SpiReg: process(Reset, SCK)
203
204       variable BUFFreg: STD_LOGIC_VECTOR(7 downto 0);
205
206       begin
207         if Reset = '1' then BUFFreg := X"00";
208             elsif SCK'event and SCK = '1' then
209                 BUFFreg := BUFFreg(6 downto 0) & MOSI; -- Buffer mod venstre
210             end if;

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211  nextMOSI <= BUFFreg;
212  end process;
213
214  ShapeRegBUFF: process (Reset, Clk)
215  begin
216      if Reset = '1' then nextS <= "00";
217      elsif Clk'event and Clk = '1' then
218          if ShapeEN = '1' then
219              nextS <= nextMOSI(1 downto 0);
220          end if;
221      end if;
222  end process;
223
224  ShapeReg: process (Reset, Clk)
225  begin
226      if Reset = '1' then Shape <= "00";
227      elsif Clk'event and Clk = '1' then
228          if RunEN = '1' then
229              Shape <= nextS;
230          end if;
231      end if;

```

```

232  end process;
233
234  AmplRegBUFF: process (Reset, Clk)
235  begin
236      if Reset = '1' then nextA <= X"00";
237      elsif Clk'event and Clk = '1' then
238          if AmplEN = '1' then
239              nextA <= nextMOSI(7 downto 0);
240          end if;
241      end if;
242  end process;
243
244  AmplReg: process (Reset, Clk)
245  begin
246      if Reset = '1' then Ampl <= X"00";
247      elsif Clk'event and Clk = '1' then
248          if RunEN = '1' then
249              Ampl <= nextA;
250          end if;
251      end if;
252  end process;

```

```

253
254  FregRegBUFF: process (Reset, Clk)
255  begin
256      if Reset = '1' then nextF <= X"00";
257      elsif Clk'event and Clk = '1' then
258          if FreqEN = '1' then
259              nextF <= nextMOSI(7 downto 0);
260          end if;
261      end if;
262  end process;
263
264  FregReg: process (Reset, Clk)
265  begin
266      if Reset = '1' then Freq <= X"00";
267      elsif Clk'event and Clk = '1' then
268          if RunEN = '1' then
269              Freq <= nextF;
270          end if;
271      end if;
272  end process;
273

```

```

274 StateReg: process (Reset, Clk)
275 begin
276     if Reset = '1' then State <= SyncS;
277     elsif Clk'event and Clk = '1' then
278         State <= nState;
279     end if;
280 end process;
281
282 SSReg: process(Reset, Clk)
283 begin
284     if Reset = '1' then SSold <= '0';
285     elsif Clk'event and Clk = '1' then
286         SSold <= SS;
287     end if;
288 end process;
289
290 SSPuls <= SS and not SSold; -- Puls til tilstandsmaskinen
291
292
293 ----- Display - multiplexer -----
294

```

```

295   DispMux: Disp <= X"F1EAD" when DispSel = "0111" else -- 'rEAD' på display
296           X"F1230" when DispSel = "0" else -- 'run' på display
297           X"4F0" & Freq when DispSel = X"1" else -- 'f' samt HEX-tal
298           X"4A0" & Ampl when DispSel = X"2" else -- 'A' samt HEX-tal
299           X"450" & "000000" & Shape; -- 'S' samt samt HEX-tal
300
301   StateDec: process(SSpuls, State, Checksum, Reset, nextMOSI)
302   begin
303   ----- Default -----
304
305   LED <= "00000000";
306   Checksum <= X"00";
307   RunEN <= '0';
308   ShapeEN <= '0';
309   AmplEN <= '0';
310   FreqEn <= '0';
311   SigEN <= '0';
312   DispSel <= "0000";
313   nState <= SyncS;
314
315           case state is

```

```

316
317 ----- State Sync -----
318
319     when SyncS =>
320         LED <= "00000001";
321         DispSel <= "0111";
322
323         if SSPuls = '1' then
324             if nextMOSI = "01010101" then -- 0x55
325                 nState <= ShapeS;
326             else
327                 nState <= SyncS;
328             end if;
329         else
330             nState <= SyncS;
331         end if;
332
333 ----- State Shape -----
334
335     when ShapeS =>
336         RunEN <= '0';

```



```

337         DispSel <= "0011";
338         LED <= "00000011";
339
340         if SSPuls = '1' then
341             ShapeEN <= '1';
342             nState <= FreqS;
343         else
344             nState <= ShapeS;
345         end if;
346
347 ----- State Frekvens -----
348
349
350         when FreqS =>
351             ShapeEN <= '0';
352             DispSel <= "0001";
353             LED <= "00000111";
354
355         if SSPuls = '1' then
356             FreqEN <= '1';
357             nState <= AmplS;

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```

358         else
359             nState <= FreqS;
360         end if;
361
362 ----- State Amplitude -----
363
364         when Ampls =>
365             FreqEN <= '0';
366             DispSel <= "0010";
367             LED <= "00001111";
368
369         if SSPuls = '1' then
370             Amplen <= '1';
371             nState <= ResetS;
372         else
373             nState <= Ampls;
374         end if;
375
376 ----- State Reset -----
377
378         when ResetS =>

```

```

379         AmplEn <='0';
380         LED <= "00011111";
381
382         if SSPuls = '1' then
383             if nextMOSI = X"00" then
384                 nState <= SyncS;
385             elsif Checksum = X"00" then
386                 nState <= ChecksumS;
387             else
388                 nState <= ResetS;
389             end if;
390         else
391             nState <= ResetS;
392         end if;
393 ----- State Checksum -----
394
395         when ChecksumS =>
396             nState <= RunS;
397             LED <= "00111111";
398
399 ----- State Run -----

```

```
400
401     when RunS =>
402         SigEN <= '1';
403         RunEN <= '1';
404         DispSel <= "0000";
405         LED <= "01111111";
406
407     if SSPuls = '1' then
408         if nextMOSI = "01010101" then -- 0x55
409             RunEN <= '0';
410             nState <= ShapeS;
411         else
412             nState <= RunS;
413         end if;
414     else
415         nState <= RunS;
416     end if;
417
418     when others =>
419         nState <= SyncS;
420
```

```
421  end case;
422  end process;
423  end Behavioral;
424
425  1.4 – U1 – SigGenDataPath
426  -----
427  -- Company:
428  -- Engineer: Ulrik Dan Hansen & Victor Strauss
429  --
430  -- Create Date: 13:42:34 08/03/2020
431  -- Design Name:
432  -- Module Name: SigGenDataPath - Behavioral
433  -- Project Name:
434  -- Target Devices:
435  -- Tool versions:
436  -- Description:
437  --
438  -- Dependencies:
439  --
440  -- Revision:
441  -- Revision 0.01 - File Created
```

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442  -- Additional Comments:
443  --
444  -----
445
446  -- SKAL IKKE ÆNDRES
447
448  library IEEE;
449  use IEEE.STD_LOGIC_1164.ALL;
450  use IEEE.STD_LOGIC_ARITH.ALL;
451  use IEEE.STD_LOGIC_UNSIGNED.ALL;
452
453  entity SigGenDatapath is
454      generic( PWMinc : std_logic := '1' ); -- HW=1, SIM=0010000
455      Port ( Reset : in std_logic;
456            Clk   : in std_logic;
457            SigEN  : in std_logic;
458            Shape  : in std_logic_vector(1 downto 0);
459            Ampl   : in std_logic_vector(7 downto 0);
460            Freq   : in std_logic_vector(7 downto 0);
461            PWMOut : out std_logic);
462  end SigGenDatapath;

```

```

463
464 architecture Behavioral of SigGenDatapath is
465
466   signal SigCnt, nSigCnt, FreqCnt: std_logic_vector(11 downto 0);
467   signal Sig, SigSquare, SigSaw, SigSinus : std_logic_vector(7 downto 0);
468   signal SigAmpl: std_logic_vector(6 downto 0);
469   signal PWMcnt: std_logic_vector(6 downto 0) := "0000000";
470   signal PWM, PWMwrap : std_logic;
471
472   begin
473
474   FreqDec: FreqCnt <= "00" & Freq(7 downto 6) & Freq(5 downto 4) & '0' & Freq(3 downto 2) & '0' & Freq(1 downto 0);
475
476   FreqAdd: nSigCnt <= SigCnt + FreqCnt;
477
478
479   SigReg: process (Reset, Clk)
480   begin
481     if Reset = '1' then SigCnt <= X"000";
482     elsif Clk'event and Clk = '1' then
483       if PWMwrap = '1' then

```

```

484     SigCnt <= nSigCnt;
485   end if;
486 end if;
487 end process;
488
489 SinusDec : entity WORK.SinusLUT PORT MAP (clka => Clk, addra => SigCnt, douta => SigSinus);
490
491 PWMcount: process(Reset, Clk)
492   variable PWMcntvar: std_logic_vector(7 downto 0);
493   begin
494     if Reset = '1' then PWMcntvar := "00000000";
495     elsif Clk'event and Clk = '1' then
496       PWMcntvar := PWMcntvar + PWMinc;
497       if PWMcntvar > "10000000" then
498         PWMcntvar := "00000000";
499       end if;
500     end if;
501     PWMcnt <= PWMcntvar(6 downto 0);
502   end process;
503
504   PWMdec: PWMwrap <= '1' when PWMcnt = "0000000" else '0';

```



```

505
506 SquareDec: SigSquare <= "00000000" when SigCnt < X"800" else "11111111";
507
508 SawDec: SigSaw <= SigCnt(11 downto 4);
509
510 SigMux: Sig <= X"FF" when Shape = "00" else
511     SigSquare when Shape = "01" else
512     SigSaw when Shape = "10" else
513     SigSinus;
514
515
516 AmplDec: process(Ampl, Sig)
517 variable MulA, MulB, MulC: std_logic_vector(15 downto 0);
518 --variable MulC: std_logic_vector(6 downto 0);
519 begin
520     MulB := X"00" & Sig;
521     MulA := X"00" & Ampl;
522     MulC := X"0000";
523     for j in 0 to 15 loop
524         if MulA(j) = '1' then
525             MulC := MulC + MulB;

```

```

526     end if;
527     MulB := MulB(14 downto 0) & '0';
528     end loop;
529 -- MulC := MulC + 1;
530     SigAmpl <= MulC(15 downto 9);
531 -- SigAmpl <= "1111111";
532     end process;
533
534
535     PWMcomp: PWM <= '1' when PWMcnt <= SigAmpl else '0';
536
537     PWMon: PWMout <= PWM when SigEn = '1' else '0'; -- SigEN bliver aktiveret for at vise PWM-output
538
539     end Behavioral;
540
541 1.5 – U5 – SevenSeg5
542 -----
543 -- Company:
544 -- Engineer: Ulrik Dan Hansen & Victor Strauss
545 --
546 -- Create Date: 13:41:10 08/03/2020

```

```
547  -- Design Name:
548  -- Module Name:  SevenSeg5 - Behavioral
549  -- Project Name:
550  -- Target Devices:
551  -- Tool versions:
552  -- Description:
553  --
554  -- Dependencies:
555  --
556  -- Revision:
557  -- Revision 0.01 - File Created
558  -- Additional Comments:
559  --
560  -----
561  ----- Driver to sevensegment display -----
562  library IEEE;
563  use IEEE.STD_LOGIC_1164.ALL;
564  use IEEE.STD_LOGIC_ARITH.ALL;
565  use IEEE.STD_LOGIC_UNSIGNED.ALL;
566
567  entity SevenSeg5 is
```

```

568     Port ( Reset,Clk: in std_logic;
569           Data : in std_logic_vector (19 downto 0); -- Binary data
570           cat : out std_logic_vector(7 downto 0); -- Common cathodes
571           an : out std_logic_vector(3 downto 0)); -- Common Anodes
572 end SevenSeg5;
573
574 architecture SevenSeg_arch of SevenSeg5 is
575     signal DispCount: integer range 0 to 3;
576     signal DataN: std_logic_vector (3 downto 0);
577     signal CatInt, CatData, CatSign: std_logic_vector (7 downto 0);
578     signal AnInt: std_logic_vector (3 downto 0);
579
580     begin
581
582
583         DispCountReg: process(Reset, Clk)
584         begin
585             if Reset = '1' then
586                 DispCount <= 0;
587             elsif Clk'event and Clk = '1' then
588                 if DispCount = 3

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```

589             then DispCount <= 0;
590             else DispCount <= DispCount + 1; end if;
591     end if;
592 end process DispCountReg;
593
594 DispCountDec: process(DispCount, Data)
595 begin
596     case DispCount is
597         when 0 =>
598             AnInt <= "1110";    -- Display 1 activated
599             DataN <= Data(3 downto 0);
600         when 1 =>
601             AnInt <= "1101";    -- Display 2 activated
602             DataN <= Data(7 downto 4);
603         when 2 =>
604             AnInt <= "1011";    -- Display 3 activated
605             DataN <= Data(11 downto 8);
606         when others =>
607             AnInt <= "0111";    -- Display 4 activated
608             DataN <= Data(15 downto 12);
609     end case;

```

```

610     end process DispCountDec;
611
612     with DataN SElect    -- Activate segments acc. to Data
613         CatData <= "11000000" when "0000", --0
614                 "11111001" when "0001", --1
615                 "10100100" when "0010", --2
616                 "10110000" when "0011", --3
617                 "10011001" when "0100", --4
618                 "10010010" when "0101", --5
619                 "10000010" when "0110", --6
620                 "11111000" when "0111", --7
621                 "10000000" when "1000", --8
622                 "10011000" when "1001", --9
623                 "10001000" when "1010", --A
624                 "10000011" when "1011", --b
625                 "11000110" when "1100", --C
626                 "10100001" when "1101", --d
627                 "10000110" when "1110", --E
628                 "10001110" when "1111", --F
629                 "11111111" when others; --blank
630

```

```

631      with DataN SElect    -- Activate segments acc. to Data
632      CatSign <= "11111111" when "0000", --Blank
633          "10101111" when "0001", -- "r"
634          "11100011" when "0010", --"u"
635          "10101011" when "0011", --"n"
636          "10011001" when "0100", --4
637          "10010010" when "0101", --5
638          "10000010" when "0110", --6
639          "11111000" when "0111", --7
640          "10000000" when "1000", --8
641          "10011000" when "1001", --9
642          "10001000" when "1010", --A
643          "10000011" when "1011", --b
644          "11000110" when "1100", --C
645          "10100001" when "1101", --d
646          "10000110" when "1110", --E
647          "10001110" when "1111", --F
648          "11111111" when others; --blank
649
650      CatInt <= CatData when Data(DispCount+16) = '0' else CatSign;
651

```

```

652         process(Reset, Clk)
653         begin
654             if Reset = '1' then Cat <= "00000000"; An <= "0000";
655             elsif Clk'event and Clk = '1' then
656                 Cat <= CatInt;
657                 An <= AnInt;
658             end if;
659         end process;
660
661     end SevenSeg_arch;
662
663     1.5 UCF fil
664
665     #PACE: Start of PACE I/O Pin Assignments
666     # Define 7-seg display anode
667     NET "An<0>" LOC = F12;
668     NET "An<1>" LOC = J12;
669     NET "An<2>" LOC = M13;
670     NET "An<3>" LOC = K14;
671
672     ## Define BUTTON-signals

```



```
673  #NET "BTN0" LOC = G12;
674  #NET "BTN1" LOC = C11;
675  #NET "BTN2" LOC = M4;
676  #NET "BTN3" LOC = A7;
677
678  # Define 7-seg display cathode
679  NET "Cat<0>" LOC = L14;
680  NET "Cat<1>" LOC = H12;
681  NET "Cat<2>" LOC = N14;
682  NET "Cat<3>" LOC = N11;
683  NET "Cat<4>" LOC = P12;
684  NET "Cat<5>" LOC = L13;
685  NET "Cat<6>" LOC = M12;
686  NET "Cat<7>" LOC = N13;
687
688  # CLOCK-signal
689  NET "Clk" LOC = B8;
690
691  # Define LED-switch LED
692  NET "LED[7]" LOC = G1;
693  NET "LED[6]" LOC = P4;
```

```
694  NET "LED[5]" LOC = N4;
695  NET "LED[4]" LOC = N5;
696  NET "LED[3]" LOC = P6;
697  NET "LED[2]" LOC = P7;
698  NET "LED[1]" LOC = M11;
699  NET "LED[0]" LOC = M5;
700
701  # MCU-signals
702  NET "PWMOOut" LOC = B2;
703  NET "MOSI" LOC = A3;
704  NET "SCK" LOC = J3;
705  NET "SCK" CLOCK_DEDICATED_ROUTE = FALSE;
706  NET "SS" LOC = B5;
707
708  ## Define SW-signals
709  #Net "SW[7]" LOC = N3;
710  #Net "SW[6]" LOC = E2;
711  #Net "SW[5]" LOC = F3;
712  #Net "SW[4]" LOC = G3;
713  #Net "SW[3]" LOC = B4;
714  #Net "SW[2]" LOC = K3;
```

715 #Net "SW[1]" LOC = L3;  
716 #Net "SW[0]" LOC = P11;  
717  
718 #PACE: Start of PACE Area Constraints  
719 #PACE: Start of PACE Prohibit Constraints  
720 #PACE: End of Constraints generated by PACE  
721

722 **1.6 – COE-fil – sinus-look-up-table**

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