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<pre>#include &lt;stdio.h&gt; #include &lt;stdlib.h&gt; #include &lt;string.h&gt; /* ASSERTIONS */ #define AssertionFlag 1  #include "abro_class.h"  /* USER DEFINED TYPE DATA */ #include "abro_data.h" extern "C" int _check_data(char *); extern "C" char *_data_to_text(data); extern "C" void _text_to_data(data *, char *); extern "C" int _eq_data(data,data); extern "C" int _ne_data(data,data);  static data _text_to_data( char *st) {     data back;     _text_to_data(&amp;back, st);     return back; }  extern "C" int _less_data(data,data); static int _great_data(data av1,data av2) {     return _less_data(av1, av2); } static int _lesseq_data(data av1,data av2) {     return _less_data(av1, av2)    _eq_data(av1, av2); } static int _greater_data(data av1,data av2) {     return _lesseq_data(av2, av1); }  static char *_strcat(char *av1, char *av2) {     char *back;     int size_av1 = !av1 ? 0 : strlen(av1);     int size_av2 = !av2 ? 0 : strlen(av2);     if (!size_av1) return av2;     if (!size_av2) return av1;     back = (char *)malloc(size_av1 + size_av2 + 1);     if (!back) return (char *)0;     strcpy(back, av1);     strcpy(back + size_av1, av2);     back[size_av1 + size_av2] = '\0';     return back; } static int _strcmp(char *av1, char *av2) {     if (!av1    !av2) return 0;     return strcmp(av1, av2); }  #define __strcat(Ls, Lv, Rs, Rv)      _strcat((Lv),(Rv)) #define __streq(Ls, Lv, Rs, Rv)       !_strcmp((Lv),(Rv)) #define __strneq(Ls, Lv, Rs, Rv)     _strcmp((Lv),(Rv)) &lt; 0 #define __strelss(Ls, Lv, Rs, Rv)   _strcmp((Lv),(Rv)) &lt;= 0 #define __strelseq(Ls, Lv, Rs, Rv)  _strcmp((Lv),(Rv)) &lt;= 0 #define __strggreat(Ls, Lv, Rs, Rv) _strcmp((Lv),(Rv)) &gt; 0 </pre>		

  

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<pre>#define __strgreated(Ls, Lv, Rs, Rv) _strcmp((Lv),(Rv)) &gt;= 0  #define __eq_data(Ls, Lv, Rs, Rv)      _eq_data((Lv), (Rv)) #define __neg_data(Ls, Lv, Rs, Rv)     _ne_data((Lv), (Rv)) #define __less_data(Ls, Lv, Rs, Rv)    _less_data((Lv), (Rv)) #define __lesseq_data(Ls, Lv, Rs, Rv)  _lesseq_data((Lv), (Rv)) #define __great_data(Ls, Lv, Rs, Rv)   _great_data((Lv), (Rv)) #define __greated_data(Ls, Lv, Rs, Rv) _greated_data((Lv), (Rv))  /* INPUTS */ static int ABRO_A_wrapper_status = 0; static char * ABRO_A_wrapper_value;  static int ABRO_B_wrapper_status = 0; static data ABRO_B_wrapper_value;  static int ABRO_R_wrapper_status = 0;  /* OUTPUTS */ static int ABRO_O_wrapper_status = 0; static data ABRO_O_wrapper_value; void ABRO:::O_0(data _value) {     ABRO_O_wrapper_status = 1;     ABRO_O_wrapper_value = _value; }  /* SENSORS */  /* MAIN */ int main(int ac, char *av[]) {     ABRO instance;  #ifndef STATE_DUMP     instance._state_dump_init("dump_abro.blif"); #endif /* STATE_DUMP */ #ifndef SIGNAL_RECORD     instance._signal_record_init("record_abro.eso"); #endif /* SIGNAL_RECORD */      instance.reset();     ABRO_A_wrapper_status = 1;     instance.I_A("1");     ABRO_B_wrapper_status = 0;     ABRO_R_wrapper_status = 0;     ABRO_O_wrapper_status = 0; #ifndef SIGNAL_RECORD     instance._signal_record_comment("Cycle 1"); #endif /* SIGNAL_RECORD */     /* Sync on CLK rising edge */     instance.run();      /* Outputs checking */      /*****     * CLK cycle number: 2 */     *****/ }  /***** * CLK cycle number: 2 */ *****/  /* Inputs initialization */ ABRO_A_wrapper_status = 1; instance.I_A("2"); ABRO_A_wrapper_value = "2"; ABRO_B_wrapper_status = 0; ABRO_R_wrapper_status = 0; ABRO_O_wrapper_status = 0; #ifndef SIGNAL_RECORD     instance._signal_record_comment("Cycle 2"); #endif /* SIGNAL_RECORD */ /* Sync on CLK rising edge */ instance.run();  /* Outputs checking */  /***** * CLK cycle number: 3 */ *****/ /* Inputs initialization */ ABRO_A_wrapper_status = 1; instance.I_A("3"); ABRO_A_wrapper_value = "3"; ABRO_B_wrapper_status = 0; ABRO_R_wrapper_status = 0; ABRO_O_wrapper_status = 0; #ifndef SIGNAL_RECORD     instance._signal_record_comment("Cycle 3"); #endif /* SIGNAL_RECORD */ /* Sync on CLK rising edge */ instance.run();  /* Outputs checking */  /***** * CLK cycle number: 4 */ *****/ /* Inputs initialization */ ABRO_B_wrapper_status = 1; if (!_check_data("second tirage")) { #ifndef STATE_DUMP     instance._state_dump_end(); #endif /* STATE_DUMP */ #ifndef SIGNAL_RECORD     instance._signal_record_comment("Run-time checking type error, file abro.esi, line 9: valued si gnal B of type \"data\" set on \"second tirage\"");     instance._signal_record_end(); </pre>		

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<pre>gnal B of type \"data\" set on \"second tirage\"");     instance._signal_record_end(); #endif /* SIGNAL_RECORD */     return 1; }  instance.I_B(_text_to_data("premier tirage")); ABRO_B_wrapper_value = _text_to_data("premier tirage"); ABRO_A_wrapper_status = 0; ABRO_R_wrapper_status = 0; ABRO_O_wrapper_status = 0; #ifndef SIGNAL_RECORD     instance._signal_record_comment("Run-time checking type error, file abro.esi, line 3: valued si gnal B of type \"data\" set on \"premier tirage\"");     instance._signal_record_end(); #endif /* SIGNAL_RECORD */ /* Sync on CLK rising edge */ instance.run();  /* Outputs checking */  /***** * CLK cycle number: 3 */ *****/ /* Inputs initialization */ ABRO_A_wrapper_status = 1; instance.I_A("2"); ABRO_A_wrapper_value = "2"; ABRO_B_wrapper_status = 0; ABRO_R_wrapper_status = 0; ABRO_O_wrapper_status = 0; #ifndef SIGNAL_RECORD     instance._signal_record_comment("Cycle 3"); #endif /* SIGNAL_RECORD */ /* Sync on CLK rising edge */ instance.run();  /* Outputs checking */  /***** * CLK cycle number: 4 */ *****/ /* Inputs initialization */ ABRO_B_wrapper_status = 1; if (!_check_data("second tirage")) { #ifndef STATE_DUMP     instance._state_dump_end(); #endif /* STATE_DUMP */ #ifndef SIGNAL_RECORD     instance._signal_record_comment("Run-time checking type error, file abro.esi, line 9: valued si gnal B of type \"data\" set on \"second tirage\"");     instance._signal_record_end(); </pre>		

  

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<pre>    } }  instance.I_B(_text_to_data("second tirage")); ABRO_B_wrapper_value = _text_to_data("second tirage"); ABRO_A_wrapper_status = 0; ABRO_R_wrapper_status = 0; ABRO_O_wrapper_status = 0; #ifndef SIGNAL_RECORD     instance._signal_record_comment("Cycle 4"); #endif /* SIGNAL_RECORD */ /* Sync on CLK rising edge */ instance.run();  /* Outputs checking */  /***** * CLK cycle number: 5 */ *****/ /* Inputs initialization */ if (!__streq(ABRO_A_wrapper_status, ABRO_A_wrapper_value, 2, "1") &amp;&amp; ABRO_B_wrapper_status) { #ifndef SIGNAL_RECORD     instance._signal_record_comment("%%%%%%%%%%%%%%%%" );     instance._signal_record_comment("NOTE: Break point reached" );     instance._signal_record_comment(" file abro.esi" );     instance._signal_record_comment(" line 8" );     instance._signal_record_comment("%%%%%%%%%%%%%%%%" ); #endif /* SIGNAL_RECORD */ } instance.I_R(); ABRO_R_wrapper_status = 1; ABRO_A_wrapper_status = 0; ABRO_B_wrapper_status = 0; ABRO_O_wrapper_status = 0; #ifndef SIGNAL_RECORD     instance._signal_record_comment("Cycle 5"); #endif /* SIGNAL_RECORD */ /* Sync on CLK rising edge */ instance.run();  /* Outputs checking */  /***** * CLK cycle number: 6 */ *****/ /* Inputs initialization */ /* A ("3"); */ #ifndef SIGNAL_RECORD     instance._signal_record_comment("A ("3");" ); #endif /* SIGNAL_RECORD */ /* B ("troisieme tirage"); */ #ifndef SIGNAL_RECORD     instance._signal_record_comment("B ("troisieme tirage");" ); #endif /* SIGNAL_RECORD */ </pre>		

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```
instance._signal_record_comment( "B (\"troisieme tirage\");" );
#endif /* SIGNAL_RECORD */

#ifndef STATE_DUMP
instance._state_dump_end();
#endif /* STATE_DUMP */
#endif /* SIGNAL_RECORD */
instance._signal_record_end();
#endif /* SIGNAL_RECORD */
return 0;
}
/* END */
```