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ФАКУЛЬТЕТ *Космический .*

КАФЕДРА *Прикладной математики, информатики и вычислительной техники*

**РАСЧЕТНО-ПОЯСНИТЕЛЬНАЯ ЗАПИСКА**

***К КУРСОВОЙ РАБОТЕ ПО ДИСЦИПЛИНЕ***

***«ТЕОРИЯ АВТОМАТОВ»***

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**Содержание**

[Введение 3](#_Toc43762511)

[Техническое задание на курсовую работу 4](#_Toc43762512)

[1. Модуль 1. Абстрактные автоматы 8](#_Toc43762513)

[1.1 Создание поведенческой модели автомата МИЛИ 8](#_Toc43762514)

[1.2 Построение эквивалентного автомата МУРА 12](#_Toc43762515)

[1.3 Создание поведенческой модели эквивалентного автомата МУРА 13](#_Toc43762516)

[1.4 Создание среды для отладки VHDL моделей абстрактных автоматов 16](#_Toc43762517)

[2. Модуль 2. Структурные автоматы 20](#_Toc43762518)

[2.1 Структурный синтез автомата МИЛИ 20](#_Toc43762519)

[2.2 Структурный синтез автомата МУРА 26](#_Toc43762520)

[2.3 Декомпозиция автомата МИЛИ 32](#_Toc43762521)

[2.4 Описание структурных частей автомата МИЛИ на языке VHDL 35](#_Toc43762522)

[2.5 Тестирование автоматов в составе специализированного стенда TSTAND 40](#_Toc43762523)

[3. Модуль 3. Микропрограммные автоматы 43](#_Toc43762524)

[3.1 Разработка алгоритма выполнения заданной операции 43](#_Toc43762525)

[3.2 Поведенческое описание операционного устройства с использованием языка VHDL 49](#_Toc43762526)

[3.3 Верификация реализуемого операционным устройством алгоритма 50](#_Toc43762527)

[3.4 Декомпозиция операционного устройства 53](#_Toc43762528)

[3.5 Синтез управляющего автомата МИЛИ 55](#_Toc43762529)

[3.6 Комплексная отладка операционного устройства с управляющим автоматом МИЛИ 59](#_Toc43762530)

[3.7 Синтез управляющего автомата МУРА 64](#_Toc43762531)

[3.8 Комплексная отладка операционного устройства с управляющим автоматом МУРА 68](#_Toc43762532)

[Заключение 70](#_Toc43762533)

[Список литературы 72](#_Toc43762534)

##### Введение

Понимание работы аппаратного обеспечения в условиях быстрого темпа развития технологий становится все более актуально. Оно позволяет использовать вычислительное устройство эффективнее за счет более детального понимания процессов, происходящих в нем.

Целью данной курсовой работы является приобретение начальных навыков проектирования аппаратных средств вычислительной техники, на современной элементной базе ПЛИС, с использованием профессионального инструментария и методологии проектирования и отладки.

Основные задачи, которые решаются в курсовой работе, следующие:

* освоение основ языка описания аппаратуры VHDL;
* знакомство с современной элементной базой – ПЛИС и с учебным стендом;
* освоение инструментария - САПР QUARTUS II и приложения ModelSim;
* изучение методологии проектирования, ориентированной на использование ПЛИС.

Объектами проектирования и последующего исследования являются автоматы: абстрактные, структурные и микропрограммные.

##### Техническое задание на курсовую работу

Часть №1. Абстрактные автоматы

1. По заданным таблицам переходов и выходов создайте модель абстрактного автомата МИЛИ на языке VHDL. Подготовьте тестовую последовательность входных наборов, осуществляющую проверку правильности выполнения всех переходов автоматом МИЛИ и формирования им выходного сигнала. Выполните моделирование абстрактного автомата МИЛИ с помощью приложения ModelSim, используя подготовленную последовательность входных наборов, и убедитесь в работоспособности VHDL модели. Распределение вариантов и файл с исходными таблицами приведены на сайте кафедры.
2. Для заданного абстрактного автомата МИЛИ постройте эквивалентный автомат МУРА.
3. Создайте модель эквивалентного абстрактного автомата МУРА на языке VHDL. Выполните моделирование автомата МУРА на той же самой последовательности входных наборов, используя приложение ModelSim, и убедитесь в том, что последовательность его выходных сигналов будет совпадать с последовательностью, формируемой автоматом МИЛИ.
4. Создайте среду Testbench для совместной отладки VHDL моделей обоих автоматов. Используйте модель генератора подготовленной тестовой последовательности и модель наблюдателя, анализирующего выходные сигналы обоих автоматов.

Часть №2. Структурные автоматы

1. Используя канонический метод структурного синтеза автоматов, выполните синтез структурных автоматов МИЛИ и МУРА в заданном базисе с использованием элементов памяти заданного типа. Минимизацию функций возбуждения и выходов автоматов выполните с помощью карт Карно.
2. С помощью схемотехнического редактора QUARTUS II создайте модули, содержащие синтезированные структурные автоматы МИЛИ и МУРА. Используя функциональное моделирование, убедитесь в правильности синтеза автоматов.
3. Выполните тестирование структурных автоматов с помощью специализированного стенда TSTAND.
4. Выполните декомпозицию одного из структурных автоматов на память, состоящую из элементов заданного типа и две комбинационные схемы: возбуждения элементов памяти и выходов автомата.
5. На языке VHDL составьте модели структурных частей выбранного автомата: памяти и двух комбинационных схем. Для комбинационных схем используйте потоковый стиль описания архитектуры. Память опишите, используя поведенческий стиль описания архитектуры. Последовательно замените схемные модули проекта на соответствующие VHDL модули. Каждый раз используйте функциональное моделирование для проверки правильности вновь созданного VHDL модуля, включая итоговую VHDL модель выбранного структурного автомата. Для этого рекомендуется использовать специализированный стенд ТSTAND.
6. Выполните макетирование структурных автоматов в кристалле ПЛИС учебного стенда «Altera DE 2 -115» и проведите с ними испытания, используя ресурсы стенда.

Часть №3. Микропрограммные автоматы

1. Для операционного устройства (ОУ) разработайте алгоритм выполнения заданной операции в соответствии с индивидуальным вариантом задания. Алгоритм представьте в виде содержательных и закодированных граф схем.
2. Опишите устройство для выполнения операции умножения с помощью языка VHDL. Примените для этого поведенческий стиль описания архитектуры. Для хранения преобразуемых слов информации используйте переменные. Опишите процесс, содержащий последовательность операторов преобразования переменных с целью вычисления результата (произведения) в соответствии с разработанным алгоритмом.
3. Используя функциональное моделирование, выполните верификацию VHDL модели ОУ на некоторых наборах. С помощью стенда TEST\_ALG выполните исчерпывающее тестирование модели ОУ.
4. Выполните декомпозицию операционного устройства по принципу Глушкова. Создайте на языке VHDL модель операционного автомата (ОА). В зависимости от управляющих сигналов операционный автомат выполняет соответствующие микрооперации и формирует логические условия. Проверьте модель ОА, подавая на него последовательность, подготовленных вручную, для некоторых операндов, управляющих сигналов.
5. Решите задачу интерпретации закодированного графа микропрограммы автоматом МИЛИ. Для этого выполните соответствующую разметку графа, а затем перейдите к графу переходов автомата.
6. Составьте модель управляющего автомата МИЛИ на языке VHDL. Выполните её сопряжение с моделью операционного автомата и выполните комплексную отладку операционного устройства. Выполните тестирование операционного устройства с помощью специализированного стенда ТEST\_OY.
7. Решите задачу интерпретации закодированного графа микропрограммы автоматом МУРА. Для этого выполните соответствующую разметку графа, а затем перейдите к графу переходов автомата.
8. Составьте модель управляющего автомата МУРА на языке VHDL. Выполните её сопряжение с моделью операционного автомата и выполните комплексную отладку операционного устройства. Выполните тестирование операционного устройства с помощью специализированного стенда ТEST\_OY.
9. Выполните макетирование операционного устройства в кристалле ПЛИС учебного стенда и проведите его испытания, используя ресурсы стенда.

## Модуль 1. Абстрактные автоматы

### Создание поведенческой модели автомата МИЛИ

Заданы таблицы переходов и выходов автомата МИЛИ (вариант № 27)

Таблица 1.1

Таблица переходов

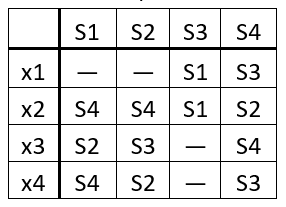
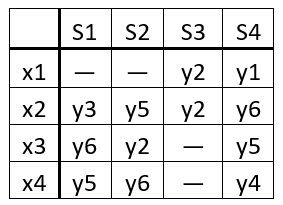


Таблица 1.2

Таблица выходов



|  |
| --- |
|  |

Сначала необходимо описать поведенческую модель автомата на языке VHDL. Описание входного, выходного алфавитов автомата целесообразно представить в пакете pack. В последующем этот пакет будет использован для описания эквивалентного автомата МУРА. Описание алфавита состояний автомата МИЛИ содержится в пакете mealy\_pack. Оба пакета приведены в листинге 1.1.

1:  package pack is                         -- Декларация пакета

2:      type in\_x is (x1,x2,x3,x4);         -- Входной алфавит

3:      type out\_y is (y1,y2,y3,y4,y5,y6);  -- Выходной алфавит

4:  end package pack;                       -- Окончание пакета

5:

6:  package mealy\_pack is

7:      type state\_s is (s1,s2,s3,s4);      -- Алфавит состояний

8:  end package mealy\_pack;

Листинг 1.1 Пакеты, содержащие описание алфавитов автомата МИЛИ

В данной курсовой работе используются синхронные автоматы, в которых изменения состояний и выходов происходят синхронно с изменением тактового сигнала. В этом случае для описания поведения автоматов используются два взаимодействующих процесса N\_state и T\_state, представленных на рис. 1.1.

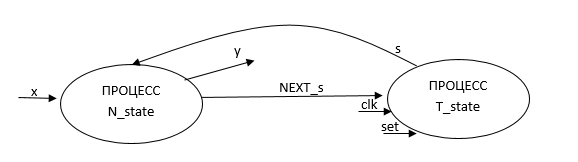


Рис. 1.1 Описание поведения синхронного автомата в виде совокупности двух процессов

В листинге 1.2 приводится описание синхронного автомата МИЛИ с использованием этих двух процессов.

 1:  library IEEE;

 2:  use IEEE.STD\_LOGIC\_1164.ALL; -- Пакет, содержащий определение

 3:  --преобразований данных в многозначном алфавите

 4:  use IEEE.STD\_LOGIC\_ARITH.ALL;-- Пакеты, содержащие функции

 5:  --преобразования форматовиз битового вектора в эквивалетное число и наоборот

 6:  use IEEE.STD\_LOGIC\_UNSIGNED.ALL;

 7:  library work;

 8:  use work.mealy\_pack.all; -- Подключение созданных пакетов

 9:  use work.pack.all;

10:

11:  entity Mealy is -- Описание интерфейса абстрактного автомата МИЛИ

12:     port

13:     (

14:         x: in in\_x;     -- Вход автомата

15:         y: out out\_y;   -- Выход автомата

16:         clk: in bit;    -- Сигнал синхронизации автомата

17:         set: in bit     -- Сигнал установки в начальное состояние

18:     );

19:  end Mealy;

20:

21:  architecture ArchMealy of Mealy is -- Описание архитектурного тела

22:  signal s: state\_s;         -- Текущее состояние

23:  signal NEXT\_s: state\_s; -- Следующее состояние автомата

24:  begin

25:     N\_state:    process (x,s)

26:     -- Процесс формирования следующего состояния и выходного сигнала автомата

27:     begin

28:         case s is

29:         -- Формирование состояний и выходов автомата в состоянии s1

30:             when s1=>

31:                 if (x=x2) then NEXT\_s<=s4; y<=y3;

32:                 elsif (x=x3) then NEXT\_s<=s2; y<=y6;

33:                 elsif (x=x4) then NEXT\_s<=s4; y<=y5;

34:                 end if;

35:         -- Формирование состояний и выходов автомата в состоянии s2

36:             when s2=>

37:                 if (x=x2) then NEXT\_s<=s4; y<=y5;

38:                 elsif (x=x3) then NEXT\_s<=s3; y<=y2;

39:                 elsif (x=x4) then NEXT\_s<=s2; y<=y6;

40:                 end if;

41:         -- Формирование состояний и выходов автомата в состоянии s3

42:             when s3=>

43:                 if (x=x1 or x=x2) then NEXT\_s<=s1; y<=y2;

44:                 end if;

45:         -- Формирование состояний и выходов автомата в состоянии s4

46:             when s4=>

47:                 if (x=x1) then NEXT\_s<=s3; y<=y1;

48:                 elsif (x=x2) then NEXT\_s<=s2; y<=y6;

49:                 elsif (x=x3) then NEXT\_s<=s4; y<=y5;

50:                 elsif (x=x4) then NEXT\_s<=s3; y<=y4;

51:                 end if;

52:         end case;

53:     end process N\_state;

54:

55:     T\_state: process (set,clk) -- Процесс формирует текущее состояние автомата

56:     begin

57:         if (set='1') then

58:             s<=s1; -- Установка в начальное состояние

59:         elsif (clk'event and clk='1') then

60:             s<=NEXT\_s; -- Переход в новое состояние по положительному фронту clk

61:         end if;

62:     end process T\_state;

63:  end ArchMealy;

Листинг 1.2 Описание автомата МИЛИ на языке VHDL

Далее необходимо протестировать поведенческое описание автомата с помощью программы ModelSim, чтобы убедиться в корректности полученного описания. Подготовленная тестовая последовательность входных наборов и ожидаемые переходы автомата приведены на рис. 1.2.

На рис. 1.3 приведен фрагмент временной диаграммы, отображающий результаты моделирования абстрактного автомата МИЛИ с использованием приложения ModelSim.

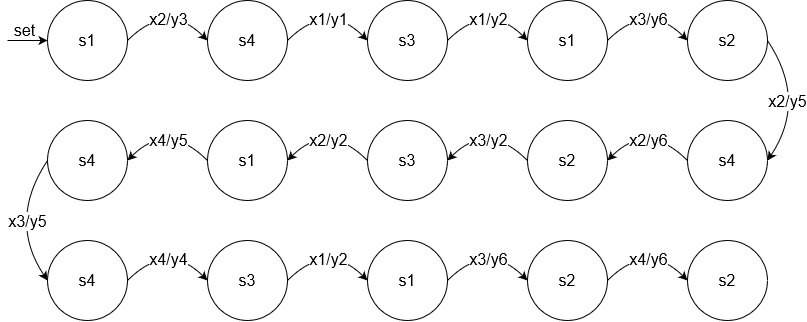


Рис. 1.2 Ожидаемое поведение автомата МИЛИ

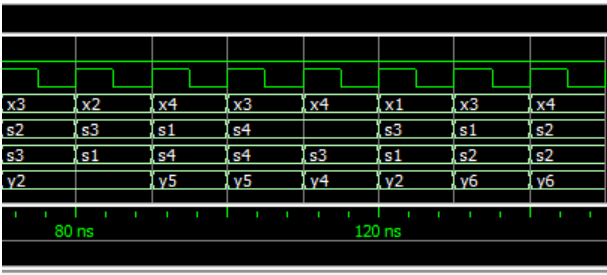
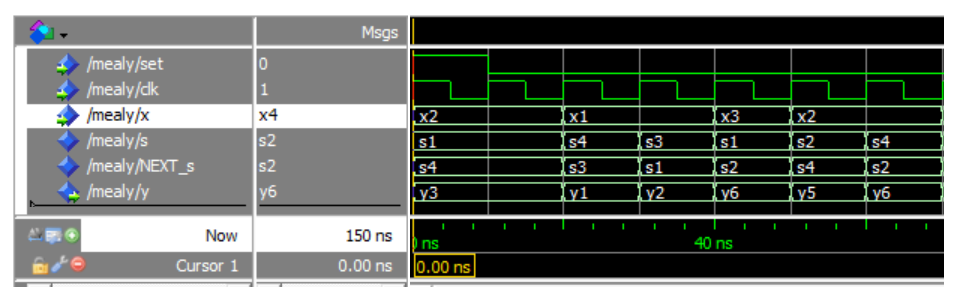


Рис. 1.3 Результаты моделирования автомата МИЛИ

### Построение эквивалентного автомата МУРА

Эквивалентный автомат МУРА будем строить, используя графическое представление исходного автомата. По таблицам 1.1 и 1.2 строим граф переходов автомата МИЛИ (рис. 1.4).

Изображение выглядит как карта, часы

Автоматически созданное описание

Рис. 1.4 Граф переходов исходного автомата МИЛИ

Для нахождения множества состояний эквивалентного автомата МУРА каждому состоянию автомата МИЛИ поставим в соответствие множество пар вида (,), таких что соответствует входящей в вершину дуге. Найденные пары представлены ниже.

|  |  |
| --- | --- |
|  |  |
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|  |  |
|  |  |

Каждая пара (,) определяет состояние эквивалентного автомата МУРА. В рассматриваемом примере получаем семь пар. Каждой паре вида (,) соответствует выходной сигнал . Обозначим каждую пару символами - . Эти символы соответствуют семи вершинам графа искомого автомата МУРА. Припишем каждой вершине соответствующий выходной сигнал по второму символу пары. Граф переходов искомого автомата МУРА изображен на рис. 1.5.

Изображение выглядит как карта

Автоматически созданное описание

Рис. 1.5 Граф переходов эквивалентного автомата МУРА

### Создание поведенческой модели эквивалентного автомата МУРА

Перед созданием поведенческой модели автомата МУРА составим отмеченную таблицу его переходов и выходов по графу, изображенному на рис. 1.5. Для рассматриваемого примера это таблица 1.3.

Таблица 1.3

Отмеченная таблица переходов и выходов автомата МУРА

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Y | y2 | y6 | y1 | y2 | y4 | y3 | y5 |
| X / S | a1 | a2 | a3 | a4 | a5 | a6 | a7 |
| x1 | - | - | a1 | a1 | a1 | a3 | a3 |
| x2 | a6 | a7 | a1 | a1 | a1 | a2 | a2 |
| x3 | a2 | a4 | - | - | - | a7 | a7 |
| x4 | a7 | a2 | - | - | - | a5 | a5 |

Описание алфавита состояний автомата МУРА содержится в пакете moore\_pack, приведенном в листинге 1.3.

1:  package moore\_pack is                           -- Декларация пакета

2:      type state\_s is (a1,a2,a3,a4,a5,a6,a7);     -- Алфавит состояний

3:  end package moore\_pack;

Листинг 1.3 Пакет, содержащий описание алфавита состояний автомата МУРА

Описание эквивалентного автомата МУРА приведено ниже, в листинге 1.4.

 1:  library IEEE;

 2:  use IEEE.STD\_LOGIC\_1164.ALL;

 3:  use IEEE.STD\_LOGIC\_ARITH.ALL;

 4:  use IEEE.STD\_LOGIC\_UNSIGNED.ALL;

 5:  library work;

 6:  use work.moore\_pack.all;           -- Подключение пакетов

 7:  use work.pack.all;

 8:

 9:  entity Moore is

10:  Port

11:  (

12:     x: in in\_x;     -- Вход автомата

13:     y: out out\_y;   -- Выход автомата

14:     clk: in bit;    -- Сигнал синхронизации

15:     set: in bit     -- Сигнал установки

16:  );

17:  end Moore;

18:

19:  architecture ArchMoore of Moore is

20:  signal NEXT\_s,s:state\_s;   -- Следующее и текущее состояния

21:  begin

22:     N\_state: process(s,x)-- Процесс формирования следующего состояния

23:     begin

24:         case s is

25:         -- Формирование следующего состояния при переходе из а1

26:             when a1=>

27:                 if x=x2 then NEXT\_s<=a6;

28:                 elsif x=x3 then NEXT\_s<=a2;

29:                 elsif x=x4 then NEXT\_s<=a7;

30:                 end if;

31:         -- Формирование следующего состояния при переходе из а2

32:             when a2=>

33:                 if x=x2 then NEXT\_s<=a7;

34:                 elsif x=x3 then NEXT\_s<=a4;

35:                 elsif x=x4 then NEXT\_s<=a2;

36:                 end if;

37:         -- Формирование следующего состояния при переходе из а3-a5

38:             when a3 | a4 | a5 =>

39:                 if (x=x1 or x=x2) then NEXT\_s<=a1;

40:                 end if;

41:         -- Формирование следующего состояния при переходе из а6-a8

42:             when a6 | a7 =>

43:                 if x=x1 then NEXT\_s<=a3;

44:                 elsif x=x2 then NEXT\_s<=a2;

45:                 elsif x=x3 then NEXT\_s<=a7;

46:                 elsif x=x4 then NEXT\_s<=a5;

47:                 end if;

48:         end case;

49:     end process N\_state;

50:  -- Формирование выходных сигналов

51:  y<= y2 when s=a1 else

52:     y6 when s=a2 else

53:     y1 when s=a3 else

54:     y2 when s=a4 else

55:     y4 when s=a5 else

56:     y3 when s=a6 else

57:     y5;

58:  -- Формирование текущего состояния--

59:  s<=    a1 when set='1' else -- Если сигнал установки равен 1

60:         NEXT\_s when (clk'event and clk='1'); -- По положительному фронту clk

61:  end ArchMoore;

Листинг 1.4 Описание эквивалентного автомата МУРА

Для моделирования автомата МУРА будем использовать ту же самую последовательность входных наборов, которая использовалась для моделирования исходного автомата МИЛИ. На рис. 1.6 изображена последовательность ожидаемых переходов автомата МУРА. На рис. 1.7 приведен фрагмент с временными диаграммами, отображающими результаты моделирования абстрактного автомата МУРА с помощью приложения ModelSim.

Анализ временных диаграмм показывает, что на выходе автомата МУРА наблюдается такая же последовательность, какая формируется исходным автоматом МИЛИ. Следовательно, задача построения эквивалентного автомата МУРА решена правильно.

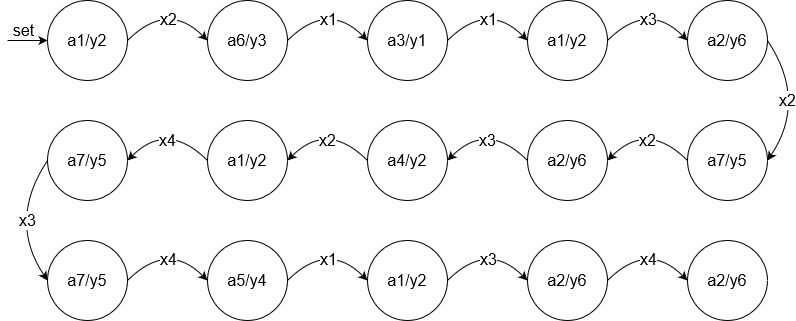
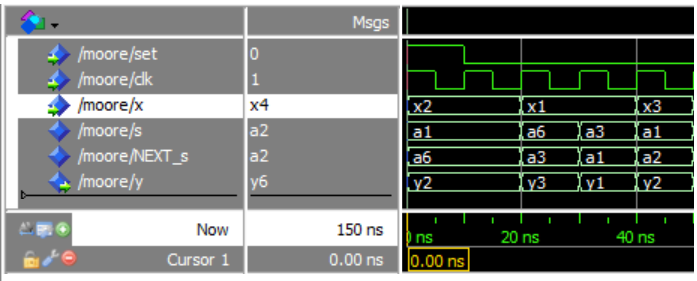


Рис. 1.6 Ожидаемое поведение эквивалентного автомата МУРА



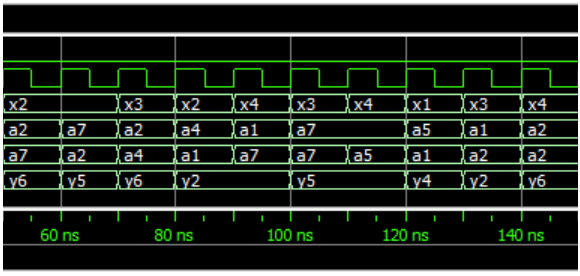


Рис. 1.7 Результаты моделирования эквивалентного автомата МУРА

### Создание среды для отладки VHDL моделей абстрактных автоматов

Для выполнения совместной верификации моделей абстрактных автоматов МИЛИ и МУРА создадим новый объект проекта Testbench. В листинге 1.5 содержится описание среды для совместной верификации обоих автоматов.

Для формирования подготовленной ранее тестовой последовательности входных наборов, подаваемой на испытуемые автоматы, используется процесс stim\_proc, который отдельно представлен в листинге 1.6.

Для подтверждения совпадения последовательностей выходных сигналов, формируемых автоматами МИЛИ и МУРА, используется сигнал equal, которому присваивается единичное значение, если задержанный на один такт выходной сигнал автомата МИЛИ совпадает с выходным сигналом автомата МУРА. В противном случае сигналу присваивается нулевое значение.

 1:  library IEEE;

 2:  use IEEE.STD\_LOGIC\_1164.ALL;

 3:  use IEEE.STD\_LOGIC\_ARITH.ALL;

 4:  use IEEE.STD\_LOGIC\_UNSIGNED.ALL;

 5:  library work;

 6:  use work.mealy\_pack.all; -- Подключение пакетов с описанием алфавитов

 7:  use work.moore\_pack.all;

 8:  use work.pack.all;

 9:

10:  entity Testbench is

11:  end Testbench;

12:

13:  architecture ArchTestbench of Testbench is

14:  component Mealy            -- Автомат МИЛИ

15:     Port

16:     (

17:         x: in in\_x;         -- Вход автомата

18:         y: out out\_y;       -- Выход автомата

19:         clk: in bit;        -- Сигнал синхронизации

20:         set: in bit         -- Сигнал установки

21:     );

22:  end component;

23:

24:  component Moore            -- Автомат МУРА

25:     Port

26:     (

27:         x: in in\_x;         -- Вход автомата

28:         y: out out\_y;       -- Выход автомата

29:         clk: in bit;        -- Сигнал синхронизации

30:         set: in bit         -- Сигнал установки

31:     );

32:  end component;

33:

34:  signal x : in\_x;           -- Сигналы, подаваемые на испытуемые автоматы

35:  signal clk : bit;

36:  signal set : bit := '1';

37:  signal y\_mealy : out\_y;    -- Выходной сигнал автомата МИЛИ

38:  signal y\_moore : out\_y;    --  Выходной сигнал автомата МУРА

39:  signal equal : bit;        -- Сигнал соответствия выходов обоих автоматов

40:  constant clock\_period : time := 10 ns; -- Период тактовых сигналов

41:

42:  begin

43:     mealy\_s : Mealy         -- Испытуемый автомат МИЛИ

44:     PORT MAP ( x => x, set => set, clk => clk, y => y\_mealy);

45:     moore\_s : Moore         -- Испытуемый автомат МУРА

46:     PORT MAP (clk => clk, x => x, set => set, y => y\_moore);

47:

48:     clock\_process : process -- Формирует последовательность тактовых импульсов

49:     begin

50:         clk <= '1';

51:         wait for clock\_period/2;

52:         clk <= '0';

53:         wait for clock\_period/2;

54:     end process;

55:

56:  equal <='1' when y\_mealy'delayed(clock\_period) = y\_moore else '0';

57:

58:     -- Процесс формирует тестовую последовательность входных сигналов для испытуемых автоматов

59:     stim\_proc: process

88:  end ArchTestbench;

Листинг 1.5 Описание среды Testbench, для совместной верификации моделей автоматов обоих типов

Результаты моделирования поведения обоих автоматов в составе среды Testbench приведены на рис. 1.8.

59:     stim\_proc: process

60:     begin

61:         x <= x2;

62:         wait for clock\_period;

63:         x <= x1;

64:         set <= '0'; -- Сигнал активен только в первом такте

65:         wait for 2\*clock\_period;

66:         x <= x3;

67:         wait for clock\_period;

68:         x <= x2;

69:         wait for 2\*clock\_period;

70:         x <= x3;

71:         wait for clock\_period;

72:         x <= x2;

73:         wait for clock\_period;

74:         x <= x4;

75:         wait for clock\_period;

76:         x <= x3;

77:         wait for clock\_period;

78:         x <= x4;

79:         wait for clock\_period;

80:         x <= x1;

81:         wait for clock\_period;

82:         x <= x3;

83:         wait for clock\_period;

84:         x <= x4;

85:         wait for clock\_period;

86:     end process;

87:

88:  end ArchTestbench;

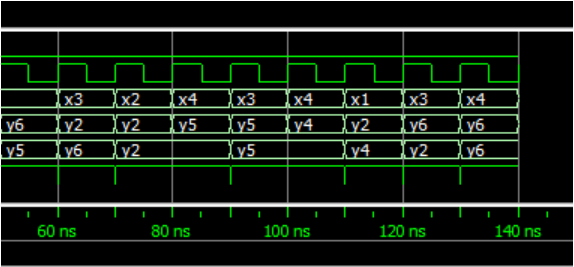
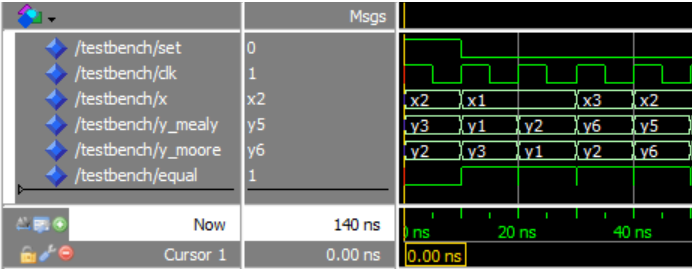
Листинг 1.6 Процесс, формирующий тестовую последовательность для испытуемых автоматов

Рис. 1.8 Результаты моделирования автоматов МИЛИ и МУРА в составе среды Testbench

## Модуль 2. Структурные автоматы

### Структурный синтез автомата МИЛИ

Для реализации четырех состояний структурного автомата МИЛИ - потребуется два элемента памяти. В соответствии с заданием, в качестве первого элемента используется JK триггер, в качестве второго – D триггер. Функции возбуждения и выходов автомата реализуются в базисе «И, ИЛИ, НЕ». Таблицы переходов и выходов заданного автомата МИЛИ приведены в табл. 1.1 и табл. 1.2.

Выполним кодирование символов входного, выходного алфавитов и алфавита состояний автомата в соответствии с табл. 2.1, 2.2, 2.3.

Таблица 2.1

Кодирование символов входного алфавита автомата МИЛИ

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | 0 | 0 |
|  | 0 | 1 |
|  | 1 | 0 |
|  | 1 | 1 |

Таблица 2.2

Кодирование символов выходного алфавита автомата МИЛИ

|  |  |  |  |
| --- | --- | --- | --- |
|  |  |  |  |
|  | 0 | 0 | 0 |
|  | 0 | 0 | 1 |
|  | 0 | 1 | 0 |
|  | 0 | 1 | 1 |
|  | 1 | 0 | 0 |
|  | 1 | 0 | 1 |

Таблица 2.3

Кодирование состояний автомата МИЛИ

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | 0 | 0 |
|  | 0 | 1 |
|  | 1 | 0 |
|  | 1 | 1 |

С учетом этого получаем следующие таблицы переходов и выходов структурного автомата (табл. 2.4 и табл. 2.5).

Таблица 2.4

Таблица переходов структурного автомата МИЛИ

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | | | | | | | | | | |
|  |  |  |  | |  | |  | |  | |
|  |  |  |  |  |  |  |  |  |  |  |
| X |  |  | 0 | 0 | 0 | 1 | 1 | 0 | 1 | 1 |
|  | 0 | 0 | - | - | - | - | 0 | 0 | 1 | 0 |
|  | 0 | 1 | 1 | 1 | 1 | 1 | 0 | 0 | 0 | 1 |
|  | 1 | 0 | 0 | 1 | 1 | 0 | - | - | 1 | 1 |
|  | 1 | 1 | 1 | 1 | 0 | 1 | - | - | 1 | 0 |

Таблица 2.5

Таблица выходов структурного автомата МИЛИ

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | | | | | | | | | | | | | | |
|  |  |  |  | |  |  | |  |  | |  |  | |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  | 0 | 0 |  | 0 | 1 |  | 1 | 0 |  | 1 | 1 |  |
| X |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  | 0 | 0 | - | - | - | - | - | - | 0 | 0 | 1 | 0 | 0 | 0 |
|  | 0 | 1 | 0 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 1 | 1 | 0 | 1 |
|  | 1 | 0 | 1 | 0 | 1 | 0 | 0 | 1 | - | - | - | 1 | 0 | 0 |
|  | 1 | 1 | 1 | 0 | 0 | 1 | 0 | 1 | - | - | - | 0 | 1 | 1 |

Для составления таблицы возбуждения элементов памяти структурного автомата МИЛИ используются таблицы возбуждения соответствующих триггеров (табл. 2.6 и табл. 2.7).

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Таблица 2.6  Таблица возбуждения JK триггера   |  |  |  |  | | --- | --- | --- | --- | |  | J | K |  | | 0 | 0 | - | 0 | | 0 | 1 | - | 1 | | 1 | - | 1 | 0 | | 1 | - | 0 | 1 | | Таблица 2.7  Таблица возбуждения D триггера   |  |  |  | | --- | --- | --- | |  | D |  | | 0 | 0 | 0 | | 0 | 1 | 1 | | 1 | 0 | 0 | | 1 | 1 | 1 | |

С учетом этого получаем таблицу возбуждения 2.8.

Таблица 2.8

Таблица возбуждения структурного автомата МИЛИ

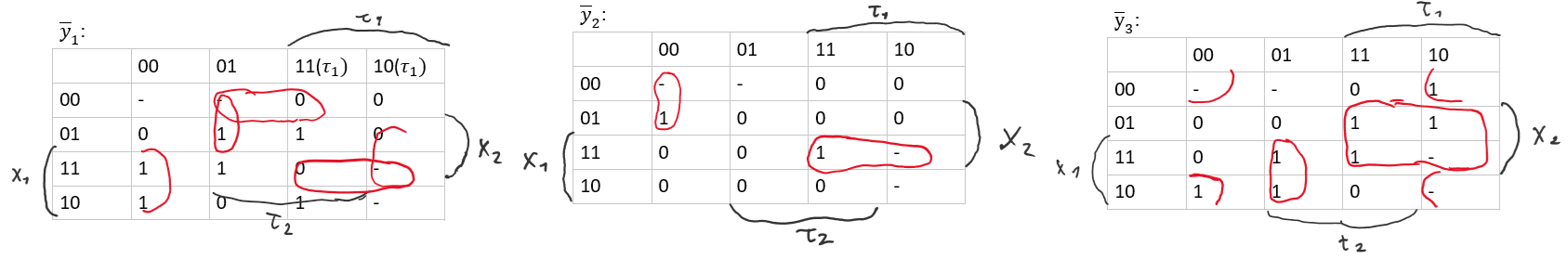
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  |  |  | | |  | | |  | | |  | | |
|  |  |  | |  |  | |  |  | |  |  | |  |
|  |  | 0 | | 0 | 0 | | 1 | 1 | | 0 | 1 | | 1 |
|  |  | J | K | D | J | K | D | J | K | D | J | K | D |
| 0 | 0 | - | - | - | - | - | - | - | 1 | 0 | - | 0 | 0 |
| 0 | 1 | 1 | - | 1 | 1 | - | 1 | - | 1 | 0 | - | 1 | 1 |
| 1 | 0 | 0 | - | 1 | 1 | - | 0 | - | - | - | - | 0 | 1 |
| 1 | 1 | 1 | - | 1 | 0 | - | 1 | - | - | - | - | 0 | 0 |

Для выполнения минимизации булевых функций возбуждения элементов памяти *J,K,D* и выходов автомата , , строим карты Карно и находим тупиковые дизъюнктивные нормальные формы.

:

:

:



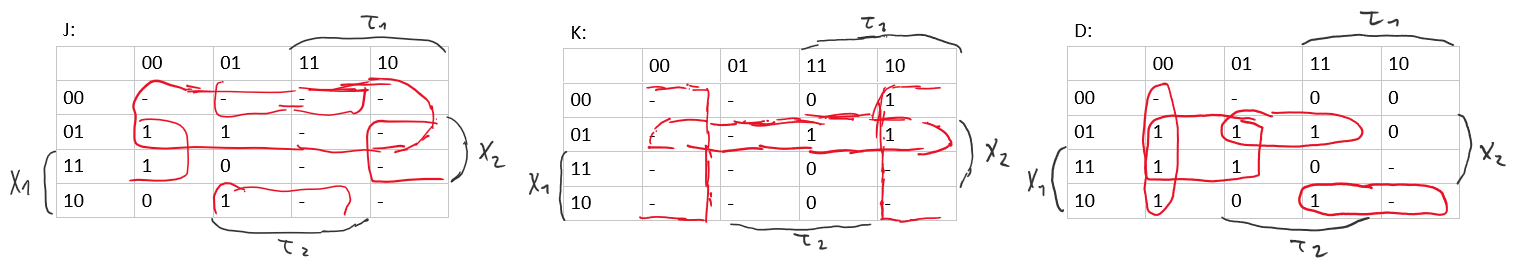


Рис. 2.1 Минимизация логических функций с помощью карт Карно для автомата МИЛИ

Применяем систему автоматизированного проектирования QUARTUS II для создания логической схемы автомата МИЛИ. Логическая схема автомата МИЛИ приведена на рис. 2.2.

Для моделирования автомата МИЛИ используется подготовленная ранее в модуле 1 для проверки абстрактного автомата, последовательность входных наборов. Тестовая последовательность входных наборов для проверки всех переходов и выходов автомата МИЛИ, с учетом их кодировки, приведена на рис. 2.3.

Результаты функционального моделирования синтезированного автомата МИЛИ на подготовленной тестовой последовательности приведены на рис. 2.4.

На основе анализа временных диаграмм можно сделать вывод, что поведение автомата МИЛИ соответствует заданному таблицами переходов и выходов поведению, которое и ожидалось при подготовке теста (см.рис. 2.3).

Изображение выглядит как текст, карта

Автоматически созданное описание

Рис. 2.2 Логическая схема автомата МИЛИ

Изображение выглядит как текст

Автоматически созданное описание

Рис. 2.3 Тестовая последовательность входных наборов и ожидаемое поведение автомата МИЛИ

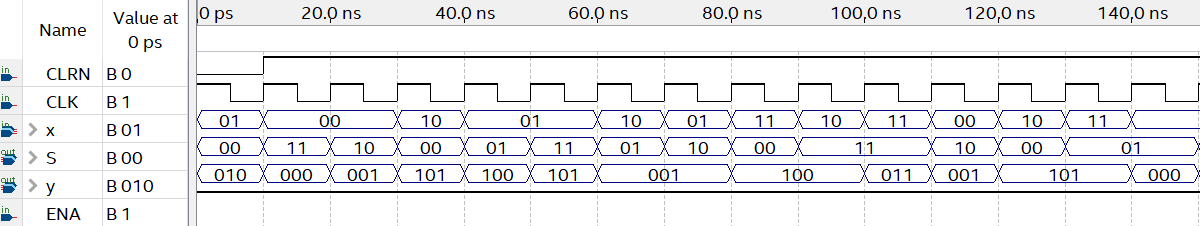


Рис. 2.4 Результаты функционального моделирования синтезированного автомата МИЛИ

### Структурный синтез автомата МУРА

Исходные данные для синтеза структурного автомата МУРА представлены в табл. 1.3. Для кодирования семи его состояний потребуется три элемента памяти. В качестве третьего элемента памяти используется T триггер.

С учетом табл. 2.1 и 2.2, в которых приводится кодирование символов входного и выходного алфавитов структурного автомата, получаем табл. 2.9, отображающую переходы и выходы структурного автомата МУРА. Таблицу возбуждения его элементов памяти строится с учетом таблиц возбуждения отдельных его элементов памяти. Для JK, D, и T триггеров, это табл. 2.6, 2.7 и 2.10, соответственно. Таблица возбуждения структурного автомата МУРА представлена в табл. 2.11.

Таблица 2.9

Таблица переходов и выходов структурного автомата МУРА

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Y | 001 | 101 | 000 | 001 | 011 | 010 | 100 |
| X / S | 000 | 001 | 010 | 011 | 100 | 101 | 110 |
| 00 | - | - | 000 | 000 | 000 | 010 | 010 |
| 01 | 101 | 110 | 000 | 000 | 000 | 001 | 001 |
| 10 | 001 | 011 | - | - | - | 110 | 110 |
| 11 | 110 | 001 | - | - | - | 100 | 100 |

Таблица 2.10

Таблица возбуждения T триггера

|  |  |  |
| --- | --- | --- |
|  | T |  |
| 0 | 0 | 0 |
| 0 | 1 | 1 |
| 1 | 1 | 0 |
| 1 | 0 | 1 |

Таблица 2.11

Таблица возбуждения структурного автомата МУРА

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| X / S | 000  JKDT | 001  JKDT | 010  JKDT | 011  JKDT | 100  JKDT | 101  JKDT | 110  JKDT |
| 00 | - | - | 0-00 | 0-01 | -100 | -111 | -110 |
| 01 | 1-01 | 1-11 | 0-00 | 0-01 | -100 | -100 | -101 |
| 10 | 0-01 | 0-10 | - | - | - | -011 | -010 |
| 11 | 1-10 | 0-00 | - | - | - | -001 | -000 |

Для выполнения минимизации булевых функций возбуждения элементов памяти *J, K,D,T* и выходов автомата , , строим карты Карно и находим тупиковые дизъюнктивные нормальные формы (рис. 2.5). Для нахождения функций выходов автомата МУРА используется табл. 2.9

|  |  |
| --- | --- |
|  | Изображение выглядит как текст, карта  Автоматически созданное описание |
|  |  |
|  |  |
|  |  |

|  |  |  |
| --- | --- | --- |
| : | : | : |
|  |  |  |

Рис. 2.5 Минимизация логических функций с помощью карт Карно для автомата МУРА

С помощью графического редактора QUARTUS II создаем схему структурного автомата МУРА. Она приведена на рис. 2.6.

Для моделирования автомата МУРА используем ту последовательность входных наборов, которую использовали для моделирования автомата МИЛИ. Ожидаемое поведение автомата МУРА приведено на рис. 2.7.

Результаты функционального моделирования структурного автомата МУРА на подготовленной последовательности входных наборов представлены на рис. 2.8. Поведение автомата МУРА соответствует ожидаемому, и наблюдаемая последовательность его выходных сигналов соответствует той, которая была сформирована структурным автоматом МИЛИ (см. рис. 2.4), что свидетельствует о правильном решении задачи его синтеза.

Изображение выглядит как текст, карта

Автоматически созданное описание

Рис. 2.6 Логическая схема структурного автомата МУРА

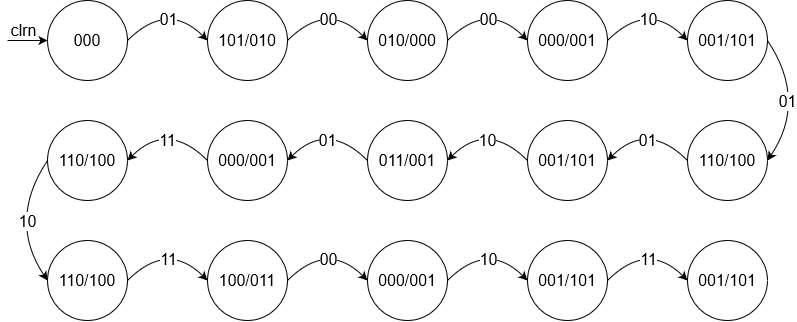


Рис. 2.7 Ожидаемое поведение структурного автомата МУРА

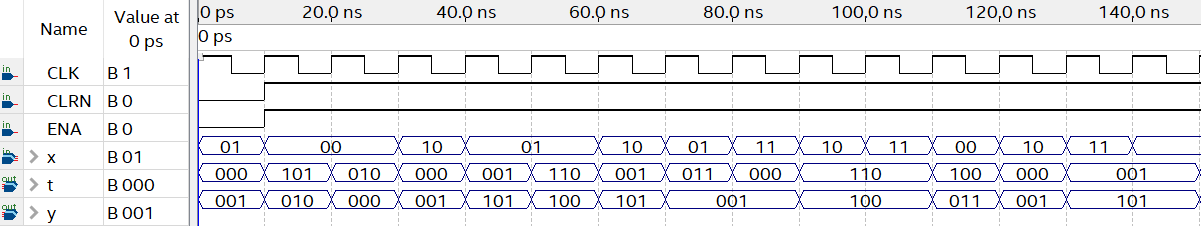


Рис. 2.8 Результаты функционального моделирования структурного автомата МУРА

### Декомпозиция автомата МИЛИ

Чтобы перейти к более высокому уровню иерархии проекта, необходимо выделить в нем блок памяти и две комбинационные схемы: возбуждения памяти и выходов. Для этого проект синтезированного автомата МИЛИ разбивается на три соответствующие части, каждая из которых, дополненная входными и выходными выводами, представляется в отдельном файле. На рис. 2.9, 2.10, 2.11 приводятся графические символы созданных обозначений структурных частей автомата МИЛИ.

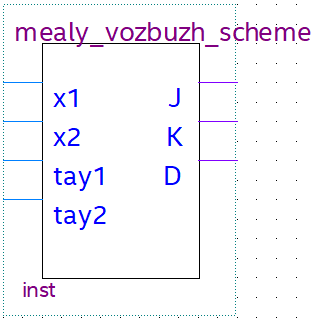


Рис. 2.9 Графическое обозначение схемы возбуждения элементов памяти автомата МИЛИ

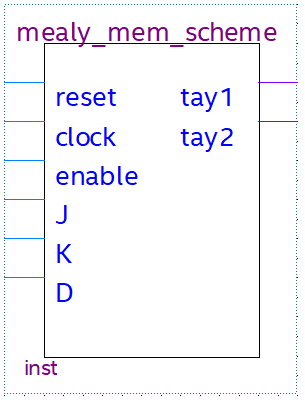
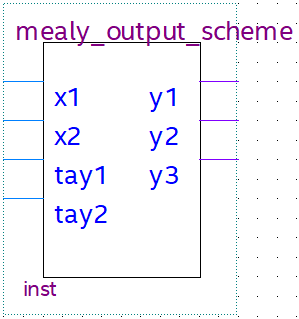


Рис. 2.10 Графическое обозначение памяти автомата МИЛИ



|  |
| --- |
| Рис. 2.11 Графическое обозначение схемы формирования выходных сигналов автомата МИЛИ |

Вновь собираем структурные части автомата в единую схему, используя графическое представление проекта, изображенное на рис. 2.12.

![Изображение выглядит как текст, карта

Автоматически созданное описание](data:image/jpeg;base64,/9j/4AAQSkZJRgABAQEAYABgAAD/4SzCRXhpZgAATU0AKgAAAAgABgALAAIAAAAmAAAIYgESAAMAAAABAAEAAAExAAIAAAAmAAAIiAEyAAIAAAAUAAAIrodpAAQAAAABAAAIwuocAAcAAAgMAAAAVgAAEUYc6gAAAAgAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAFdpbmRvd3MgUGhvdG8gRWRpdG9yIDEwLjAuMTAwMTEuMTYzODQAV2luZG93cyBQaG90byBFZGl0b3IgMTAuMC4xMDAxMS4xNjM4NAAyMDIwOjA2OjE3IDE3OjExOjAyAAAGkAMAAgAAABQAABEckAQAAgAAABQAABEwkpEAAgAAAAM5NAAAkpIAAgAAAAM5NAAAoAEAAwAAAAEAAQAA6hwABwAACAwAAAkQAAAAABzqAAAACAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA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O00ZjT5pFZFEbeZvUKC4wqtuBcooAWs181zqS3UFvBDHMFs3huWdpozGnzSKyKI28zeoUFxhVbcC5RS1mvmudSW6gt4IY5gtm8NyztNGY0+aRWRRG3mb1CguMKrbgXKKWs181zqS3UFvBDHMFs3huWdpozGnzSKyKI28zeoUFxhVbcC5RS1mvmudSW6gt4IY5gtm8NyztNGY0+aRWRRG3mb1CguMKrbgXKKAFrNfNc6kt1BbwQxzBbN4blnaaMxp80isiiNvM3qFBcYVW3AuUUtZr5rnUluoLeCGOYLZvDcs7TRmNPmkVkURt5m9QoLjCq24FyilrNfNc6kt1BbwQxzBbN4blnaaMxp80isiiNvM3qFBcYVW3AuUUtZr5rnUluoLeCGOYLZvDcs7TRmNPmkVkURt5m9QoLjCq24FyigBazXzXOpLdQW8EMcwWzeG5Z2mjMafNIrIojbzN6hQXGFVtwLlFLWa+a51JbqC3ghjmC2bw3LO00ZjT5pFZFEbeZvUKC4wqtuBcopazXzXOpLdQW8EMcwWzeG5Z2mjMafNIrIojbzN6hQXGFVtwLlFLWa+a51JbqC3ghjmC2bw3LO00ZjT5pFZFEbeZvUKC4wqtuBcooAWs181zqS3UFvBDHMFs3huWdpozGnzSKyKI28zeoUFxhVbcC5RS1mvmudSW6gt4IY5gtm8NyztNGY0+aRWRRG3mb1CguMKrbgXKKWs181zqS3UFvBDHMFs3huWdpozGnzSKyKI28zeoUFxhVbcC5RS1mvmudSW6gt4IY5gtm8NyztNGY0+aRWRRG3mb1CguMKrbgXKKAFrNfNc6kt1BbwQxzBbN4blnaaMxp80isiiNvM3qFBcYVW3AuUUtZr5rnUluoLeCGOYLZvDcs7TRmNPmkVkURt5m9QoLjCq24FyilrNfNc6kt1BbwQxzBbN4blnaaMxp80isiiNvM3qFBcYVW3AuUUtZr5rnUluoLeCGOYLZvDcs7TRmNPmkVkURt5m9QoLjCq24FyigBazXzXOpLdQW8EMcwWzeG5Z2mjMafNIrIojbzN6hQXGFVtwLlFLWa+a51JbqC3ghjmC2bw3LO00ZjT5pFZFEbeZvUKC4wqtuBcopazXzXOpLdQW8EMcwWzeG5Z2mjMafNIrIojbzN6hQXGFVtwLlFLWa+a51JbqC3ghjmC2bw3LO00ZjT5pFZFEbeZvUKC4wqtuBcooAWs181zqS3UFvBDHMFs3huWdpozGnzSKyKI28zeoUFxhVbcC5RS1mvmudSW6gt4IY5gtm8NyztNGY0+aRWRRG3mb1CguMKrbgXKKWs181zqS3UFvBDHMFs3huWdpozGnzSKyKI28zeoUFxhVbcC5RS1mvmudSW6gt4IY5gtm8NyztNGY0+aRWRRG3mb1CguMKrbgXKKAFrNfNc6kt1BbwQxzBbN4blnaaMxp80isiiNvM3qFBcYVW3AuUUtZr5rnUluoLeCGOYLZvDcs7TRmNPmkVkURt5m9QoLjCq24FyilrNfNc6kt1BbwQxzBbN4blnaaMxp80isiiNvM3qFBcYVW3AuUUtZr5rnUluoLeCGOYLZvDcs7TRmNPmkVkURt5m9QoLjCq24FyigBazXzXOpLdQW8EMcwWzeG5Z2mjMafNIrIojbzN6hQXGFVtwLlFLWa+a51JbqC3ghjmC2bw3LO00ZjT5pFZFEbeZvUKC4wqtuBcopazXzXOpLdQW8EMcwWzeG5Z2mjMafNIrIojbzN6hQXGFVtwLlFLWa+a51JbqC3ghjmC2bw3LO00ZjT5pFZFEbeZvUKC4wqtuBcooAWs181zqS3UFvBDHMFs3huWdpozGnzSKyKI28zeoUFxhVbcC5RS1mvmudSW6gt4IY5gtm8NyztNGY0+aRWRRG3mb1CguMKrbgXKKWs181zqS3UFvBDHMFs3huWdpozGnzSKyKI28zeoUFxhVbcC5RS1mvmudSW6gt4IY5gtm8NyztNGY0+aRWRRG3mb1CguMKrbgXKKAFrNfNc6kt1BbwQxzBbN4blnaaMxp80isiiNvM3qFBcYVW3AuUUtZr5rnUluoLeCGOYLZvDcs7TRmNPmkVkURt5m9QoLjCq24FyilrNfNc6kt1BbwQxzBbN4blnaaMxp80isiiNvM3qFBcYVW3AuUUtZr5rnUluoLeCGOYLZvDcs7TRmNPmkVkURt5m9QoLjCq24FyigBazXzXOpLdQW8EMcwWzeG5Z2mjMafNIrIojbzN6hQXGFVtwLlFLWa+a51JbqC3ghjmC2bw3LO00ZjT5pFZFEbeZvUKC4wqtuBcopazXzXOpLdQW8EMcwWzeG5Z2mjMafNIrIojbzN6hQXGFVtwLlFLWa+a51JbqC3ghjmC2bw3LO00ZjT5pFZFEbeZvUKC4wqtuBcooAWs181zqS3UFvBDHMFs3huWdpozGnzSKyKI28zeoUFxhVbcC5RdHy19P51nWs181zqS3UFvBDHMFs3huWdpozGnzSKyKI28zeoUFxhVbcC5RdHy19P50ARXH7tcqSDnHX6UXH7tcqSDnHX6UUUAFx+7XKkg5x1+lFx+7XKkg5x1+lFFABcfu1ypIOcdfpRcfu1ypIOcdfpRRQAXH7tcqSDnHX6UXH7tcqSDnHX6UUUAFx+7XKkg5x1+lFx+7XKkg5x1+lFFABcfu1ypIOcdfpRcfu1ypIOcdfpRRQAXH7tcqSDnHX6UXH7tcqSDnHX6UUUAFx+7XKkg5x1+lFx+7XKkg5x1+lFFABcfu1ypIOcdfpRcfu1ypIOcdfpRRQAXH7tcqSDnHX6UXH7tcqSDnHX6UUUAFx+7XKkg5x1+lFx+7XKkg5x1+lFFABcfu1ypIOcdfpRcfu1ypIOcdfpRRQAXH7tcqSDnHX6UXH7tcqSDnHX6UUUAFx+7XKkg5x1+lFx+7XKkg5x1+lFFABcfu1ypIOcdfpRcfu1ypIOcdfpRRQAXH7tcqSDnHX6UXH7tcqSDnHX6UUUAFx+7XKkg5x1+lFx+7XKkg5x1+lFFABcfu1ypIOcdfpRcfu1ypIOcdfpRRQAXH7tcqSDnHX6UXH7tcqSDnHX6UUUAFx+7XKkg5x1+lFx+7XKkg5x1+lFFABcfu1ypIOcdfpRcfu1ypIOcdfpRRQAXH7tcqSDnHX6UXH7tcqSDnHX6UUUAFx+7XKkg5x1+lFx+7XKkg5x1+lFFABcfu1ypIOcdfpRcfu1ypIOcdfpRRQAXH7tcqSDnHX6UXH7tcqSDnHX6UUUAFx+7XKkg5x1+lFx+7XKkg5x1+lFFAwZARITyV6c9OBUb/LAGHB8vP5dKKKBdRl9I1tBK8ZwypkE89x61JGN0O48kKCPb5RRRQMR+IQw4Pl549hxTL6RraCV4zhlTIJ57j1oooAkjG6HceSFBHt8opH4hDDg+Xnj2HFFFADL6RraCV4zhlTIJ57j1qSMbodx5IUEe3yiiigBH4hDDg+Xnj2HFMvna3gkeMkMqZBPPp60UUFR3H7itujAnJAH5gVJP8Au49wJznHX6UUUEvcLj92uVJBzjr9KLj92uVJBzjr9KKKBBcfu1ypIOcdfpRcfu1ypIOcdfpRRQAXH7tcqSDnHX6UXH7tcqSDnHX6UUUAFx+7XKkg5x1+lFx+7XKkg5x1+lFFABcfu1ypIOcdfpRcfu1ypIOcdfpRRQAXH7tcqSDnHX6UXH7tcqSDnHX6UUUAFx+7XKkg5x1+lFx+7XKkg5x1+lFFABcfu1ypIOcdfpRcfu1ypIOcdfpRRQAXH7tcqSDnHX6UXH7tcqSDnHX6UUUAFx+7XKkg5x1+lFx+7XKkg5x1+lFFABcfu1ypIOcdfpRcfu1ypIOcdfpRRQAXH7tcqSDnHX6UXH7tcqSDnHX6UUUAFx+7XKkg5x1+lFx+7XKkg5x1+lFFABcfu1ypIOcdfpRcfu1ypIOcdfpRRQAXH7tcqSDnHX6UXH7tcqSDnHX6UUUAFx+7XKkg5x1+lFx+7XKkg5x1+lFFABcfu1ypIOcdfpRcfu1ypIOcdfpRRQAXH7tcqSDnHX6UXH7tcqSDnHX6UUUAFx+7XKkg5x1+lFx+7XKkg5x1+lFFABcfu1ypIOcdfpRcfu1ypIOcdfpRRQAXH7tcqSDnHX6UXH7tcqSDnHX6UUUAFx+7XKkg5x1+lFx+7XKkg5x1+lFFABcfu1ypIOcdfpRcfu1ypIOcdfpRRQAXH7tcqSDnHX6UXH7tcqSDnHX6UUUAFx+7XKkg5x1+lFx+7XKkg5x1+lFFABcfu1ypIOcdfpUvlr6frRRQB//Z)

Рис. 2.12 Структурный автомат МИЛИ, состоящий из трёх компонент

### Описание структурных частей автомата МИЛИ на языке VHDL

Создадим текстовые описания структурных частей автомата МИЛИ на языке VHDL в отдельных файлах. Описание схемы возбуждения памяти автомата МИЛИ приведено в листинге 2.1

 1:  library IEEE;

 2:  use IEEE.STD\_LOGIC\_1164.ALL;

 3:  use IEEE.STD\_LOGIC\_ARITH.ALL;

 4:  use IEEE.STD\_LOGIC\_UNSIGNED.ALL;

 5:

 6:  entity vozbuzh is

 7:  port

 8:  (

 9:     x1, x2: in bit;  -- входные сигналы автомата

10:     t1, t2: in bit;  -- состояния элементов памяти

11:     J, K, D: out bit -- функции возбуждения элементов памяти

12:  );

13:  end vozbuzh;

14:

15:  architecture Behavioral of vozbuzh is

16:  begin

17:  -- описание J в основном базисе

18:  J <= (not x1) or (x2 and not t2) or (not x2 and t2);

19:  -- описание K в основном базисе

20:  K <= (not t2) or (not x1 and x2);

21:  -- описание D в основном базисе

22:  D <= (not t1 and not t2) or (x2 and not t1) or (not x1 and x2 and t2) or (x1 and not x2 and t1);

23:  end Behavioral;

Листинг 2.1 Описание схемы возбуждения памяти автомата МИЛИ на языке VHDL

На рис. 2.13 изображен графический символ схемы возбуждения памяти.

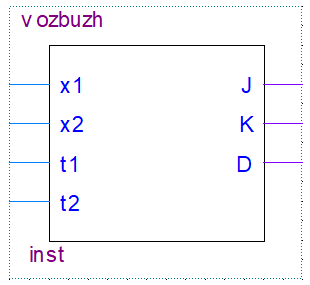


Рис. 2.13 Графическое обозначение схемы возбуждения памяти автомата МИЛИ

 1:  library IEEE;

 2:  use IEEE.STD\_LOGIC\_1164.ALL;

 3:  use IEEE.STD\_LOGIC\_ARITH.ALL;

 4:  use IEEE.STD\_LOGIC\_UNSIGNED.ALL;

 5:

 6:  entity memory is

 7:  Port

 8:  (

 9:     J, K, D: in bit; -- функции возбуждения

10:     clock, enable, resetn: in bit; -- сигналы синхронизации, разрешения, сброса

11:     t1, t2: buffer bit -- состояния

12:  );

13:  end memory;

14:

15:  architecture Behavioral of memory is

16:  begin

17:  process(clock,resetn)

18:  begin

19:     if (resetn = '0') then t1 <= '0'; -- сброс триггера

20:     elsif clock' event and clock = '1' then

21:         -- если есть разрешение, устанавливаем состояние JK и D триггера

22:         if (enable = '1') then

23:             if (J = '0' and K = '1') then t1 <= '0';

24:             elsif (J = '1' and K = '0') then t1 <= '1';

25:             elsif (J = '1' and K = '1') then t1 <= not t1;

26:             end if;

27:             t2 <= D;

28:         end if;

29:     end if;

30:  end process;

31:  end Behavioral;

Листинг 2.2 Описание памяти автомата МИЛИ на языке VHDL

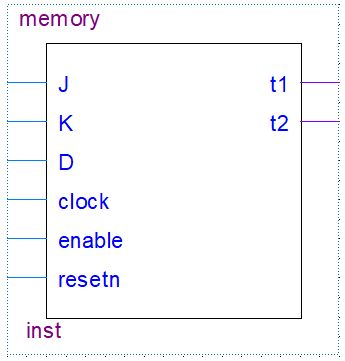


Рис. 2.14 Графическое обозначение памяти автомата МИЛИ

 1:  library IEEE;

 2:  use IEEE.STD\_LOGIC\_1164.ALL;

 3:  use IEEE.STD\_LOGIC\_ARITH.ALL;

 4:  use IEEE.STD\_LOGIC\_UNSIGNED.ALL;

 5:

 6:  entity output is

 7:  Port

 8:  (

 9:     x1, x2: in bit; --входные сигналы

10:     t1, t2: in bit; --состояния элементов памяти

11:     y1, y2, y3: out bit --выходные сигналы

12:  );

13:  end output;

14:

15:  architecture Behavioral of output is

16:  begin

17:     -- описание y1 в основном базисе

18:     y1 <= (x1 and not t2) or (x2 and t2 and not t1) or (not x1 and x2 and t2) or (x1 and not x2 and t1);

19:     -- описание y2 в основном базисе

20:     y2 <= (not x1 and not t1 and not t2) or (x1 and x2 and t1);

21:     -- описание y3 в основном базисе

22:     y3 <= (not x2 and not t2) or (x2 and t1) or (x1 and not t1 and t2);

23:  end Behavioral;

Листинг 2.3 Описание схемы формирования выходов автомата МИЛИ

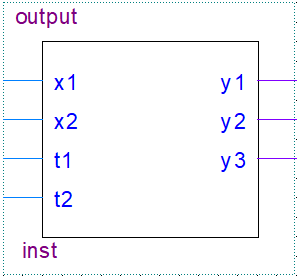


Рис. 2.15 Графическое обозначение схемы формирования выходов автомата МИЛИ

Наконец, для перехода к полному текстовому описанию проекта автомата МИЛИ, создадим его структурное описание в виде совокупности компонентов и связей между ними, используя язык VHDL. Оно приведено в листинге 2.4 и, по существу, представляет описание схемы, изображенной на рис. рис. 2.16.

![Изображение выглядит как текст, карта, компьютер, стол

Автоматически созданное описание](data:image/jpeg;base64,/9j/4AAQSkZJRgABAQEAYABgAAD/4S+qRXhpZgAATU0AKgAAAAgABgALAAIAAAAmAAAIYgESAAMAAAABAAEAAAExAAIAAAAmAAAIiAEyAAIAAAAUAAAIrodpAAQAAAABAAAIwuocAAcAAAgMAAAAVgAAEUYc6gAAAAgAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAFdpbmRvd3MgUGhvdG8gRWRpdG9yIDEwLjAuMTAwMTEuMTYzODQAV2luZG93cyBQaG90byBFZGl0b3IgMTAuMC4xMDAxMS4xNjM4NAAyMDIwOjA2OjE3IDE3OjExOjQ4AAAGkAMAAgAAABQAABEckAQAAgAAABQAABEwkpEAAgAAAAM5NwAAkpIAAgAAAAM5NwAAoAEAAwAAAAEAAQAA6hwABwAACAwAAAkQAAAAABzqAAAACAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA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Рис. 2.16 Графическое представление проекта в виде композиции из трех частей

 1:  library IEEE;

 2:  use IEEE.STD\_LOGIC\_1164.ALL;

 3:  use IEEE.STD\_LOGIC\_ARITH.ALL;

 4:  use IEEE.STD\_LOGIC\_UNSIGNED.ALL;

 5:

 6:  entity mealy\_dec is -- описание интерфейса автомата МИЛИ

 7:  port

 8:  (

 9:      x1, x2: in bit;     -- входы автомата

10:      clock: in bit;      -- вход синхросигнала

11:      resetn: in bit;     -- установка в начальное состояние

12:      enable: in bit;     -- вход разрешения

13:      t1, t2: buffer bit; -- сотояния автомата

14:      y1, y2, y3: out bit -- выходные сигналы автомата

15:  );

16:  end mealy\_dec;

17:

18:  architecture structure of mealy\_dec is -- описание архитектурног тела

19:  -- с использованием структурного стиля

20:  -- далее следует декларация компонент автомата

21:  component

22:  memory port(J, K, D, clock, enable, resetn: in bit; t1, t2: buffer bit);

23:  -- компонента память автомата

24:  end component;

25:  component

26:  vozbuzh port(x1, x2, t1, t2: in bit; J, K, D: out bit);

27:  -- компонента формирует функции возбуждения

28:  end component;

29:  component

30:  output port(x1, x2, t1, t2: in bit; y1,y2,y3:out bit);

31:  --компонента формирует выходные сигналы

32:  end component;

33:  --ниже следует декларация сигналов

34:  signal s\_J,s\_K,s\_D:bit;

35:  --далее следует описание соединений компонент

36:  begin

37:  circ1: memory --память автомата

38:  port map (s\_J,s\_K,s\_D,clock,enable,resetn,t1,t2);

39:  circ2: vozbuzh --схема возбуждения памяти автомата

40:  port map (x1, x2, t1, t2, s\_J, s\_K, s\_D);

41:  circ3: output --схема формирования выходных сигналов автомата

42:  port map (x1, x2, t1, t2, y1, y2, y3);

43:  end structure;

Листинг 2.4 VHDL описание автомата МИЛИ с использованием структурного стиля

Выполнив функциональное моделирование проекта, снова подтверждаем правильность решения поставленной задачи. Результаты моделирования приведены на рис. 2.17.

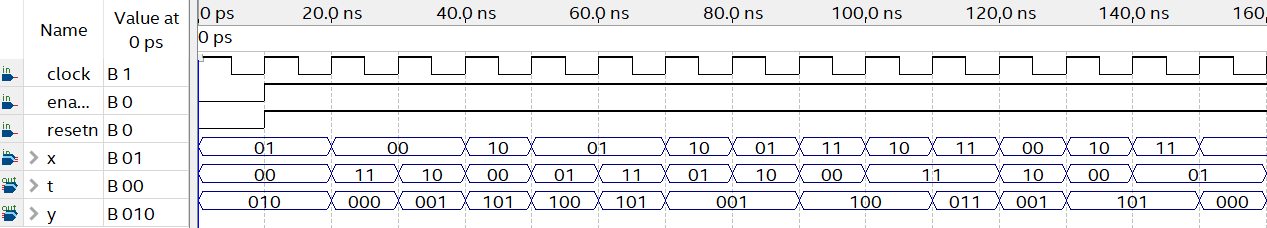


Рис. 2.17 Результат моделирования проекта автомата МИЛИ в виде полного текстового VHDL описания

### Тестирование автоматов в составе специализированного стенда TSTAND

Заключение о соответствии спроектированных автоматов заданному варианту выполняется на основании моделирования стенда TSTAND с включенными в него автоматами МИЛИ и МУРА. Структурные автоматы, включенные в стенд представлены на рис. 2.18.

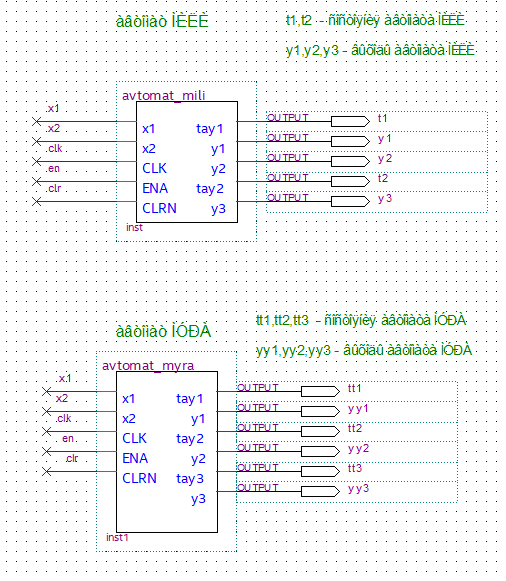


Рис. 2.18 Структурные автоматы МИЛИ и МУРА в составе стенда TSTAND

На рис. 2.19 приведены временные диаграммы, после функционального моделирования стенда с включенными в его состав автоматами МИЛИ и МУРА.

Изображение выглядит как снимок экрана

Автоматически созданное описание

Рис. 2.19 Результаты функционального моделирования стенда

Структурный автомат МИЛИ, описанный на языке VHDL, включенный в состав стенда представлен на рис. 2.20.

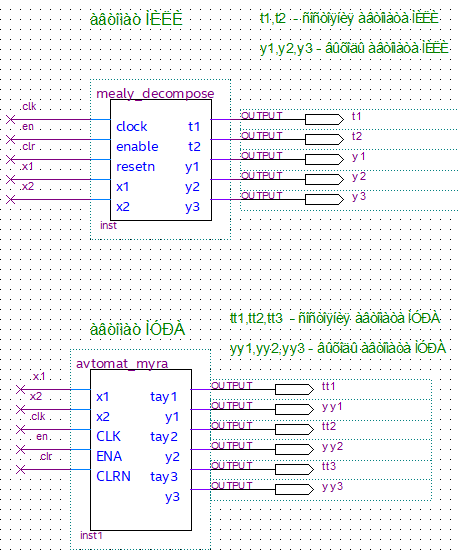


Рис. 2.20 Автомат МИЛИ, описанный на языке VHDL в составе стенда

На рис. 2.21 приведены временные диаграммы, после функционального моделирования стенда c включенным в его состав автоматом МИЛИ, описанном на языке VHDL.

Изображение выглядит как снимок экрана

Автоматически созданное описание

Рис. 2.21 Результаты функционального моделирования для автомата МИЛИ, описанного на языке VHDL

Сигналы «res», «res\_y» и «rez\_mura» равны единице на всем интервале временных диаграмм, это означает, что работа тестируемых автоматов совпадает с работой эталонных автоматов и тестирование проходит успешно.

## Модуль 3. Микропрограммные автоматы

### Разработка алгоритма выполнения заданной операции

Согласно техническому заданию на проектирование операционного устройства (ОУ) для варианта № 20 операция выполняется по алгоритму умножения чисел в дополнительном коде с младших разрядов множителя и сдвигом множимого влево (школьный метод) путем предварительного преобразования кодов сомножителей на противоположные при отрицательном множителе. При нулевом значении текущего разряда множителя такт суммирования не пропускается. Первый операнд - множимое, второй - множитель. Результат формируется в 8-ми разрядной сетке и помещается в пару смежных ячеек памяти с четным и нечетным адресами.

Умножение с младших разрядов множителя и сдвигом множимого влево в p-ичной системе представляется следующим выражением

При отрицательном множителе предварительное преобразование кодов сомножителей происходит путем изменения знаков сомножителей на противоположные и взятием дополнительного кода от дополнительного. Для того, чтобы избежать переполнения разрядной сетки при преобразовании, когда один из сомножителей является допустимым максимальным отрицательным числом, умножение выполняется не только на цифровые разряды, но и на разряд, отводимый под знак.

Ниже представлены примеры выполнения заданной операции.

Пример 1.

|  |  |  |
| --- | --- | --- |
| b0 = 1 | 00000011 |  |
| b1 = 1 | 00000110 |  |
| b2 = 0 | 00000000 |  |
| b3 = 0 | 00000000 |  |
| результат | 00001001 | = 9 |

Пример 2.

|  |  |  |
| --- | --- | --- |
| b0 = 1 | 11111101 |  |
| b1 = 0 | 00000000 |  |
| b2 = 1 | 11110100 |  |
| b3 = 0 | 00000000 |  |
| результат | 11110001 | = 10001111п = -15 |

Пример 3.

|  |  |  |
| --- | --- | --- |
| b0 = 1 | 11111011 |  |
| b1 = 1 | 11110110 |  |
| b2 = 0 | 00000000 |  |
| b3 = 0 | 00000000 |  |
| результат | 11110001 | = 10001111п = -15 |

Пример 4.

|  |  |  |
| --- | --- | --- |
| b0 = 1 | 00000101 |  |
| b1 = 0 | 00000000 |  |
| b2 = 1 | 00010100 |  |
| b3 = 0 | 00000000 |  |
| результат | 00011001 | = 25 |

Алгоритм выполнения заданной операции в текстовой форме можно представить так:

1. Обнуляем сумму частичных произведений *S0* := 0, устанавливаем счетчик *i* : = 0.
2. Анализируем старший (левый) разряд множителя.

* Если он = 1, то преобразуем коды сомножителей на противоположные *A:= -A, B := -B*
* Если он = 0, то пропускаем шаг преобразования кодов.

1. Анализируем i-ый разряд множителя.

* Если он = 1, то прибавляем множимое *S := S + [A]д*
* Если он = 0, то прибавляем 0 *S := S + 0*

1. Сдвигаем влево множимое (*A := A\*2*), увеличиваем *i* (*i := i+1*)

* Если все разряды множителя проанализировали, то завершаем алгоритм.
* Если нет, то повторяем пункты 2 и 3.

Определим слова, которые необходимы для выполнения умножения по описанному алгоритму. Используются обозначения из книги Майорова С.А., Новикова Г.И. "Структура электронных вычислительных машин". В таблице 3.1 приведены слова информации, участвующие в микропрограмме.

Таблица 3.1

Описание слов в микропрограмме умножения

| Тип | Наименование | Пояснения |
| --- | --- | --- |
| I | a(n-1:0) | 1 операнд (множимое) |
| I | b(n-1:0) | 2 операнд (множитель) |
| O | c(2n-1:0) | результат (произведение) |
| L | *i* | счетчик анализируемого разряда |
| L | ra(2n-1:0) | регистр множимого |
| L | rb(n-1:0) | регистр множителя |
| LO | rc(2n-1:0) | регистр результата |

На рис. 3.1 изображен содержательный граф микропрограммы выполнения операции умножения в соответствии с рассмотренным выше алгоритмом. В операторных вершинах представлены выполняемые микрооперации, в условных вершинах анализируемые логические условия, которые отдельно приведены в таблицах 3.2 и 3.3, соответственно. Из этих таблиц следует, что операционный автомат должен уметь выполнять десять микроопераций и вычислять три логических условия.

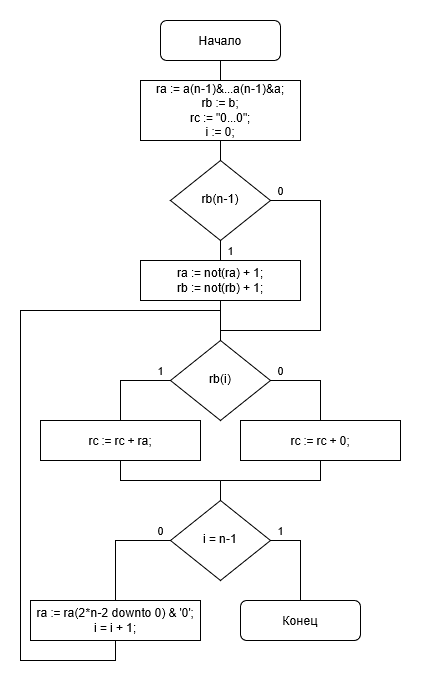


Рис. 3.1 Содержательный граф микропрограммы

Таблица 3.2

Таблица микроопераций

|  |  |
| --- | --- |
| Обозначение | Микрооперация |
| y0 | ra := a(n-1)&…a(n-1)&a |
| y1 | rb := b |
| y2 | rc := "0…0" |
| y3 | i := 0 |
| y4 | ra := not(ra) + 1 |
| y5 | rb := not(rb) + 1 |
| y6 | rc := rc + ra |
| y7 | rc := rc + 0 |
| y8 | ra := ra(2\*n-2 downto 0) & '0' |
| y9 | i = i + 1; |

На рис. 3.2 приведен закодированный граф микропрограммы выполнения умножения.

Таблица 3.3

Таблица логических условий

|  |  |
| --- | --- |
| Обозначение | Логическое условие |
| x0 | rb(n-1) |
| x1 | rb(i) |
| x2 | i = n-1 |

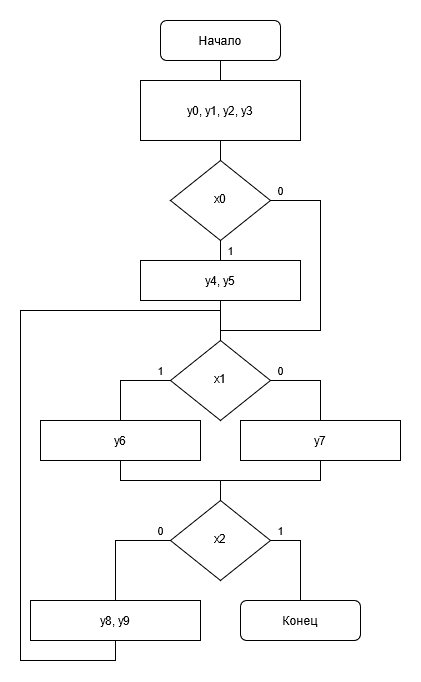


Рис. 3.2 Закодированный граф микропрограммы

### Поведенческое описание операционного устройства с использованием языка VHDL

Для проверки разработанного алгоритма выполнения устройством заданной операции создадим его поведенческое описание с использованием языка VHDL. Оно представлено в листинге 3.1.

 1:  library IEEE;

 2:  use IEEE.STD\_LOGIC\_1164.ALL;

 3:  use IEEE.STD\_LOGIC\_ARITH.ALL;

 4:  USE IEEE.STD\_LOGIC\_UNSIGNED.ALL;

 5:

 6:  entity Multiply is

 7:  generic (n:integer:=4); -- n параметр, задает разрядность операндов

 8:  Port(a: in std\_logic\_vector(n-1 downto 0); -- множимое

 9:       b: in std\_logic\_vector(n-1 downto 0); -- множитель

10:       c: out std\_logic\_vector(2\*n-1 downto 0)); -- произведение

11:  end Multiply;

12:

13:  architecture Behavioral of Multiply is

14:  begin process(a,b)

15:  variable ra : std\_logic\_vector (2\*n-1 downto 0); -- для хранения множимого

16:  variable rb : std\_logic\_vector (n-1 downto 0); -- для хранения множителя

17:  variable rc : std\_logic\_vector (2\*n-1 downto 0); -- для формирования суммы ЧП

18:  begin

19:  ra(n-1 downto 0) := a; -- помещаем множимое в регистр.

20:  ra(2\*n-1 downto n) := (others => a(n-1)); -- заполняем старшие разряды регистра знаковым.

21:  rb := b; -- помещаем множитель в регистр.

22:  rc := (others => '0'); -- обнулям сумму ЧП

23:  if b(n-1) = '1' then -- если знак множителя отрицательный, то преобразуем коды сомножителей на противоположные

24:     ra := not(ra) + 1; -- [-A]д

25:     rb := not(rb) + 1; -- [-B]д

26:  end if;

27:  for i in 0 to n-1 loop -- выполняем в цикле n раз

28:     if (rb(i) = '1') -- если анализируемый разряд равен единице,

29:         then rc := rc + ra; -- то прибавляем множимое к сумме ЧП

30:     else rc := rc + 0; -- Иначе прибавляем 0

31:     end if;

32:     ra(2\*n-1 downto 0) := ra(2\*n-2 downto 0) & '0'; -- сдвигаем множимое влево

33:  end loop;

34:  c<=rc(2\*n-1 downto 0); -- передача результата на выход устройства

35:  end process;

36:  end Behavioral;

Листинг 3.1 Поведенческое описание операционного устройства

### Верификация реализуемого операционным устройством алгоритма

Исчерпывающее тестирование алгоритма выполняется на специализированном стенде TEST\_ALG. Стенд представляет собой проект, выполненный в QUARTUSII, в который в качестве испытуемого вставляется модуль Multiply (в данном случае он переименован в My\_multiply). Часть стенда с включенным символьным обозначением модуля представлен на рис. 3.3.

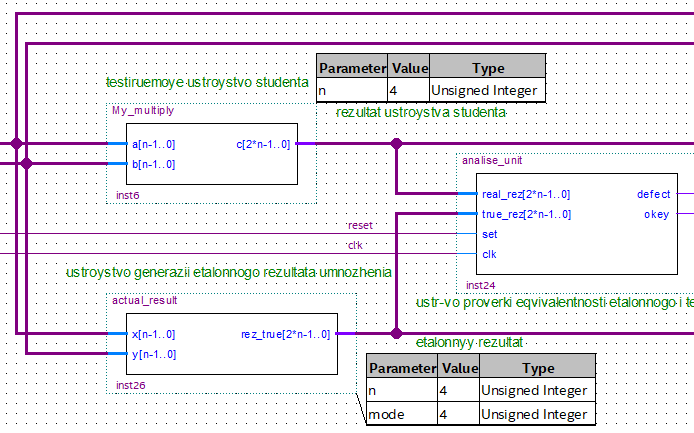


Рис. 3.3 Фрагмент стенда TEST\_ALG с испытуемым модулем My\_multiply

Тестирование модуля выполняется путем подачи всех возможных наборов на его входы и анализе стендом всех полученных результатов. Для настройки стенда параметр mode устанавливается равным 4, что соответствует целочисленному представлению знаковых операндов в дополнительном коде. Выходной сигнал okey равен единице, а сигнал defect равен нулю на всем протяжении временной диаграммы на рис. 3.4, что свидетельствует об успешном тестировании модуля.

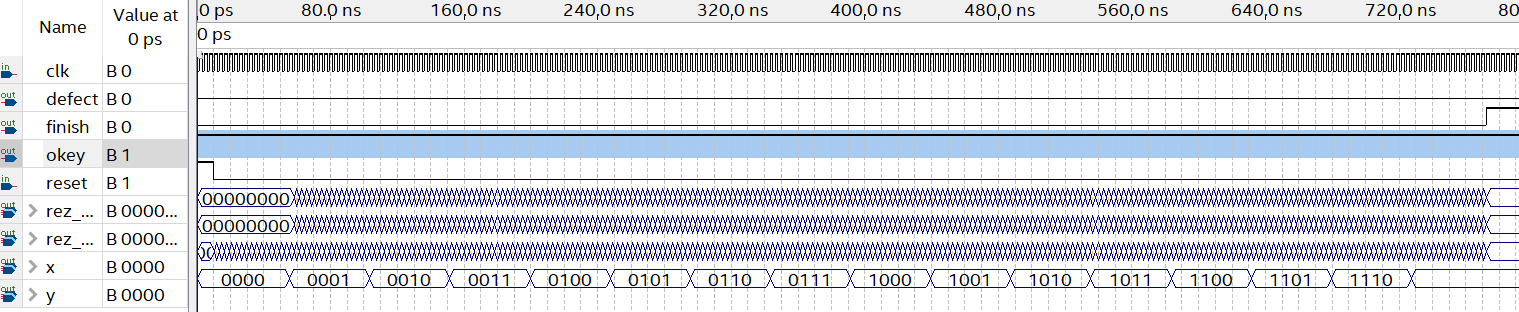


Рис. 3.4 Тестирование поведенческой модели операционного устройства на специализированном стенде TEST\_ALG

### Декомпозиция операционного устройства

В соответствии с моделью дискретного преобразователя Глушкова, представленной в книге Майорова С.А., Новикова Г.И. "Структура электронных вычислительных машин", в функциональном и структурном отношении операционное устройство удобно представить состоящим из двух частей: операционного автомата (ОА) и управляющего автомата (УА). Описание операционного автомата на языке VHDL приведено в листинге 3.2.

 1:  -- В этом файле содержится описание операционного автомата

 2:  -- ОА выполняет микрооперации, каждая из которых задается своим управляющим сигналом у

 3:  -- и формирует логические условия х

 4:  library IEEE;

 5:  use IEEE.STD\_LOGIC\_1164.ALL;

 6:  use IEEE.STD\_LOGIC\_ARITH.ALL;

 7:  use IEEE.STD\_LOGIC\_UNSIGNED.ALL;

 8:

 9:  entity OperationAutomat is

10:  generic(n:integer:=4); -- параметр n определяет разрядность операндов

11:  Port(

12:     y: in std\_logic\_vector(9 downto 0); -- управляющие сигналы,задают микрооперации

13:     x: out std\_logic\_vector(2 downto 0); -- логические условия

14:     a: in std\_logic\_vector(n-1 downto 0); -- 1-ый операнд(множимое)

15:     b: in std\_logic\_vector(n-1 downto 0); -- 2-ой операнд (множитель)

16:     rc: buffer std\_logic\_vector(2\*n-1 downto 0); -- результат (произведение)

17:     clk: in std\_logic -- синхросигнал

18:  );

19:  end OperationAutomat;

20:

21:  architecture arch of OperationAutomat is

22:      signal ra: std\_logic\_vector(2\*n-1 downto 0); -- регистр множимого

23:      signal rb: std\_logic\_vector(n-1 downto 0); -- регистр множителя

24:      signal i: integer range 0 to n-1; -- счетчик анализируемого разряда

25:  begin

26:  execution\_mo:

27:  process(clk) -- этот процесс описывает выполняемые в ОА микрооперации

28:  begin

29:     if clk' event and clk='1' then -- по положительному фронту clk

30:         if (y(0) = '1') then

31:             ra(2\*n-1 downto n) <= (others => a(n-1)); ra(n-1 downto 0) <= a; -- прием в ra множимого с расширением знака

32:         end if;

33:         if (y(1) = '1') then

34:             rb <= b; -- прием в rb множителя

35:         end if;

36:         if (y(2) = '1') then

37:             rc <= (others => '0'); -- обнуление rc

38:         end if;

39:         if (y(3) = '1') then

40:             i <= 0; -- инициализация i

41:         end if;

42:         if (y(4) = '1') then

43:             ra <= not(ra) + 1; -- -[A]д

44:         end if;

45:         if (y(5) = '1') then

46:             rb <= not(rb) + 1; -- -[B]д

47:         end if;

48:         if (y(6) = '1') then

49:             rc <= rc + ra; -- прибавление ra к СЧП

50:         end if;

51:         if (y(7) = '1') then

52:             rc <= rc + 0; -- прибавление 0 к СЧП

53:         end if;

54:         if (y(8) = '1') then

55:             ra(n\*2-1 downto 0) <= ra(n\*2-2 downto 0) & '0'; -- сдвиг влево ra

56:         end if;

57:         if (y(9) = '1') then

58:             i <= i+1; -- инкремент i

59:         end if;

60:     end if;

61:  end process;

62:  -- Формируемые ОА логические условия

63:  x(0) <= rb(n-1); -- анализируемый знаковый разряд множителя

64:  x(1) <= rb(i); -- анализируемый разряд множителя

65:  x(2) <= '1' when i = n-1 else '0';     -- признак анализа последнего цифрового разряда

66:  end arch;

Листинг 3.2 Поведенческое описание операционного автомата

На рис. 3.5 приведены результаты функционального моделирования ОА. Управляющие сигналы и операнды, задаваемые на его входе, подготовлены для примера 1 из раздела 3.1. Используется двоичная форма представления сигналов.

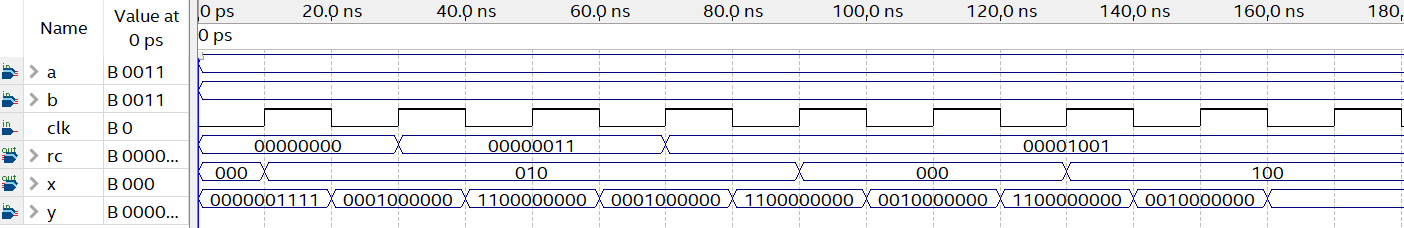


Рис. 3.5 Результаты функционального моделирования ОА

Анализ результатов моделирования ОА подтверждает его корректное поведение.

### Синтез управляющего автомата МИЛИ

Так как время выполнения заданной операции зависит от самих операндов, а точнее от множителя, то целесообразно предусмотреть формирование управляющим автоматом сигнала конца операции sko, свидетельствующего о завершении операции. Аналогичным образом, для запуска процесса выполнения операции будем использовать сигнал начала операции sno. Вход в вершину, следующую за начальной и вход в конечную вершину, отмечаем символом S0. Входы всех вершин, следующих за операторными, отмечаем символами состояний S1, S2 S3. Полученная разметка приведена на рис. 3.6.

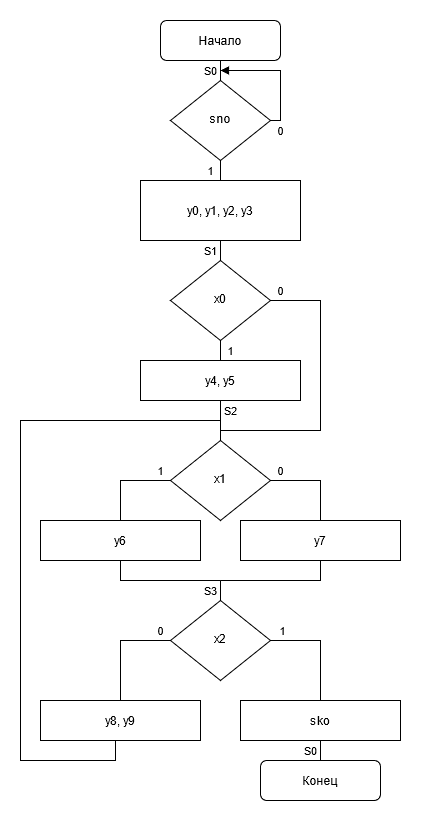


Рис. 3.6 Разметка закодированного графа микропрограммы для ее интерпретации автоматом МИЛИ

В таблице 3.4 показаны переходы автомата МИЛИ, условия переходов и формируемые им выходные сигналы.

На рис. 3.7 представлен граф переходов управляющего автомата МИЛИ.

Таблица 3.4

Таблица переходов управляющего автомата МИЛИ

|  |  |  |  |
| --- | --- | --- | --- |
| Состояние St | Условие перехода | Выходные сигналы | Состояние St+1 |
| S0 |  | y0, y1, y2, y3 | S1 |
| S0 |  | --- | S0 |
| S1 |  | y4, y5 | S2 |
| S1 |  | y6 | S3 |
| S1 |  | y7 | S3 |
| S2 |  | y6 | S3 |
| S2 |  | y7 | S3 |
| S3 |  | sko | S0 |
| S3 |  | y8, y9 | S2 |

Изображение выглядит как карта

Автоматически созданное описание

Рис. 3.7 Граф управляющего автомата МИЛИ

В листинге 3.3 приведено описание интерфейса управляющего автомата ControlUnit и его архитектурного тела arch\_mealy в виде поведенческого описания автомата МИЛИ на языке VHDL.

 1:  -- В этом файле содержится описание управляющего автомата ControlUnit

 2:  -- Архитектурное тело arch\_mealy описывает поведение автомата МИЛИ

 3:  -- УА формирует необходимую последовательность

 4:  -- управляющих сигналов y в зависимости от значений логических условий x

 5:  library IEEE;

 6:  use IEEE.STD\_LOGIC\_1164.ALL;

 7:  use IEEE.STD\_LOGIC\_ARITH.ALL;

 8:  use IEEE.STD\_LOGIC\_UNSIGNED.ALL;

 9:

10:  -- Далее следует описание интерфейса УА

11:  entity ControlUnit is

12:  Port(

13:     y: out std\_logic\_vector(9 downto 0); -- управляющие сигналы

14:     x: in std\_logic\_vector(2 downto 0); -- логические условия

15:     clk: in std\_logic; -- синхросигнал

16:     set: in std\_logic; -- сигнал начальной установки

17:     sno: in std\_logic; -- сигнал начала операции

18:     sko:out std\_logic -- сигнал конца операции

19:  );

20:  end ControlUnit;

21:

22:  architecture arch\_mealy of ControlUnit is

23:  type T\_state is(s0,s1,s2,s3); -- используем перечислимый тип для состояний УА

24:  signal state,Next\_state:T\_state; -- текущее состояние УА, следующее состояние УА

25:  begin

26:  NS:process(state,sno,x) -- этот процесс формирует следующее состояние УА, управляющие силгналы y и сигнал конца операции SKO

27:  begin

28:     sko <= '0'; -- нет sko

29:     y <= "0000000000"; -- nmk

30:     case state is

31:         when s0 =>

32:             if (sno = '1') -- если есть сигнал SNO

33:             then Next\_state <= s1; y <= "0000001111"; -- => s1 mk1

34:             else Next\_state <= s0; y <= "0000000000"; -- => s0 nmk

35:             end if;

36:         when s1 =>

37:             if (x(0) = '1') -- знаковый разряд множителя отрицательный

38:             then Next\_state <= s2; y <= "0000110000"; -- => s2 mk2

39:             elsif (x(1) = '1') -- знак. разряд положительный, анализ. разряд = 1

40:             then Next\_state <= s3; y <= "0001000000"; -- => s3 mk3

41:             else Next\_state <= s3; y <= "0010000000"; -- => s3 mk4

42:             end if;

43:         when s2 =>

44:             if (x(1) = '1') -- анализ. разряд = 1

45:             then Next\_state <= s3; y <= "0001000000"; -- => s3 mk3

46:             else Next\_state <= s3; y <= "0010000000"; -- => s3 mk4

47:             end if;

48:         when s3 =>

49:             if (x(2) = '0') -- это не последний разряд

50:             then Next\_state <= s2; y <= "1100000000"; -- => s2 mk5

51:             else Next\_state <= s0; y <= "0000000000"; sko <= '1'; -- => s0 nmk sko

52:             end if;

53:     end case;

54:  end process NS;

55:  --формирование текущего состояния

56:  state <= s0 when set = '1' else -- если есть сигнал начальной установки

57:     Next\_state when clk'event and clk = '1' --по положительному фронту clk

58:     else state;

59:  end arch\_mealy;

Листинг 3.3 Описание управляющего автомата МИЛИ на языке VHDL

### Комплексная отладка операционного устройства с управляющим автоматом МИЛИ

Чтобы выполнить совместную отладку УА и ОА, создадим символьные обозначения обоих модулей и объединим их в модуле верхнего уровня в единое операционное устройство, как показано на рис. 3.8. Используем графическое представление проекта в виде схемы.

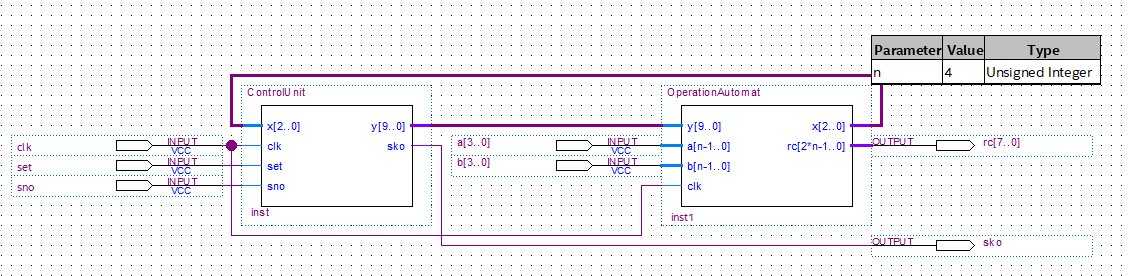


Рис. 3.8 Операционное устройство в виде композиции УА и ОА

Выполним функциональное моделирование ОУ. Для этого используем подготовленную ранее тестовую последовательность входных наборов, включающую рассмотренные в разделе 3.1. примеры. Результаты моделирования приведены на рис. 3.9. Операнды a и b, а также результат умножения представлены в форме десятичных чисел со знаком. Как следует из рисунка, результаты моделирования операционного устройства демонстрируют его правильное поведение.

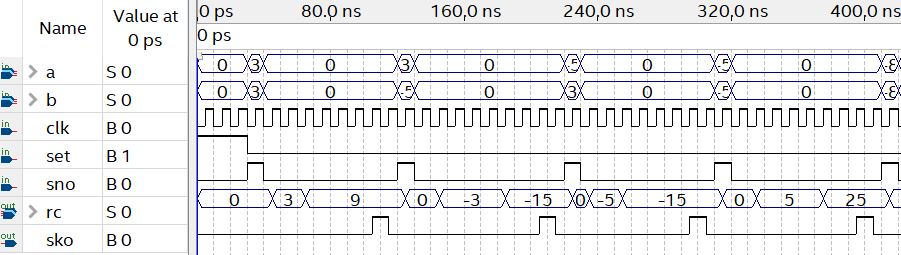


Рис. 3.9 Результаты моделирования ОУ, состоящего из УА МИЛИ и ОА

Создадим альтернативный проект операционного устройства, представленного на рис. 3.8, в виде его полного текстового описания на языке VHDL. Он представлен в листинге 3.4.

 1:  -- Этот файл содержит описание ОУ в виде совокупности двух компонентов

 2:  -- УА  и ОА. УА формирует битовый вектор y[9..0]

 3:  -- Каждый разряд у инициирует выполнение соответствующей микрооперации в ОА

 4:

 5:  library IEEE;

 6:  use IEEE.STD\_LOGIC\_1164.ALL;

 7:  use IEEE.STD\_LOGIC\_ARITH.ALL;

 8:  use IEEE.STD\_LOGIC\_UNSIGNED.ALL;

 9:

10:  entity OY is --  имя модуля

11:  generic(n:integer:=4); -- n - параметр, определяющий разрядность устройства

12:  PORT

13:     (

14:         a:   in std\_logic\_vector(n-1 downto 0); -- 1-ый операнд (множимое)

15:         b:   in std\_logic\_vector(n-1 downto 0); -- 2-ой операнд (множитель)

16:         clk:     in std\_logic; -- синхросигнал

17:         set:     in std\_logic; -- сигнал начальной установки

18:         sno:     in std\_logic; -- сигнал начала операции

19:         sko:     out std\_logic; -- сигнал конца операции

20:         rc:  out std\_logic\_vector(n\*2-1 downto 0) -- результат (произведение)

21:     );

22:  END OY;

23:

24:  architecture struct of OY is -- описание архитектурного тела ОУ с использованием структурного стиля

25:  -- В описании архитектуры декларируются два компонента - ОА и УА

26:

27:  component OperationAutomat --декларация компонента ОА

28:  generic(n:integer);                                            -- параметр n, определяющий разрядность устройства

29:  PORT (y: in std\_logic\_vector(9 downto 0);          --управляющие сигналы, задают микрооперации

30:        x: out std\_logic\_vector(2 downto 0);         --логические условия

31:        a: in std\_logic\_vector(n-1 downto 0);            --1-ый операнд (множимое)

32:        b: in std\_logic\_vector(n-1 downto 0);            --2-ой операнд (множитель)

33:        rc: buffer std\_logic\_vector(n\*2-1 downto 0); --результат (произведение)

34:        clk: in std\_logic                                        --синхросигнал

35:  );

36:  end component;

37:

38:  component ControlUnit   --декларация компонента УА

39:  Port

40:  (

41:        y: out std\_logic\_vector(9 downto 0);         --управляющие сигналы

42:        x: in std\_logic\_vector(2 downto 0);          --логические условия

43:        clk: in std\_logic;                           --синхросигнал

44:         set: in std\_logic;                                  --сигнал начальной установки

45:        sno: in std\_logic;                                   --сигнал начала операции

46:         sko: out std\_logic                                  --сигнал конца операции

47:  );

48:  end component;

49:

50:  signal x\_X: std\_logic\_vector(2 downto 0);      --логические условия

51:  signal y\_Y: std\_logic\_vector(9 downto 0);      --управляющие сигналы

52:

53:  begin

54:  -- ниже приводятся экземпляры компонентов, каждый имеет уникальную метку

55:  unit\_OA: OperationAutomat                          -- это экземпляр ОА

56:  generic map(n => 4)                                    -- n=4

57:  port map (y\_Y,x\_X,a,b,rc,clk);                 -- карта портов для ОА

58:

59:  unit\_YA:ControlUnit                                    -- это экземпляр УА

60:  port map(y\_Y,x\_X,clk,set,sno,sko);             -- карта портов для УА

61:  end struct ;

Листинг 3.4 VHDL описание ОУ в виде композиции УА и ОА

Для того, чтобы убедиться в правильности работы ОУ, воспользуемся специализированным стендом для тестирования операционного устройства TEST\_OY. Результаты тестирования представлены на рис. 3.10.

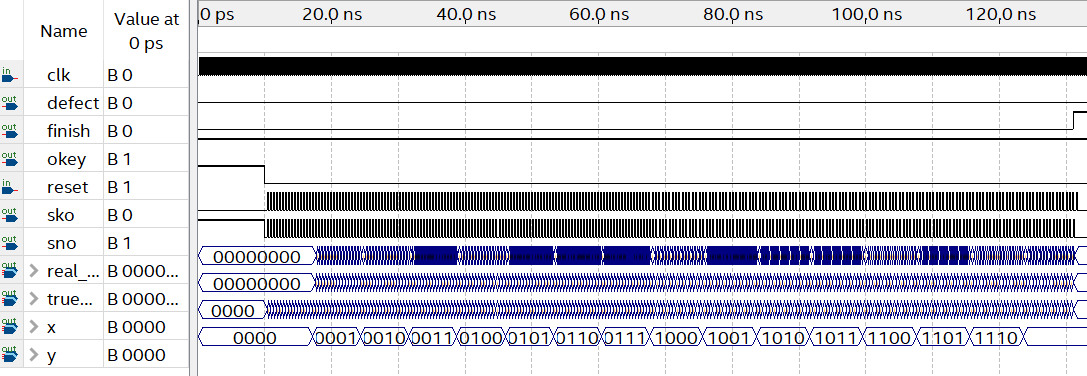


Рис. 3.10 Тестирование операционного устройства в специализированном стенде TEST\_OY

### Синтез управляющего автомата МУРА

Выполним разметку закодированного графа микропрограммы умножения для ее интерпретации автоматом МУРА. Полученная разметка приведена на рис. 3.11.

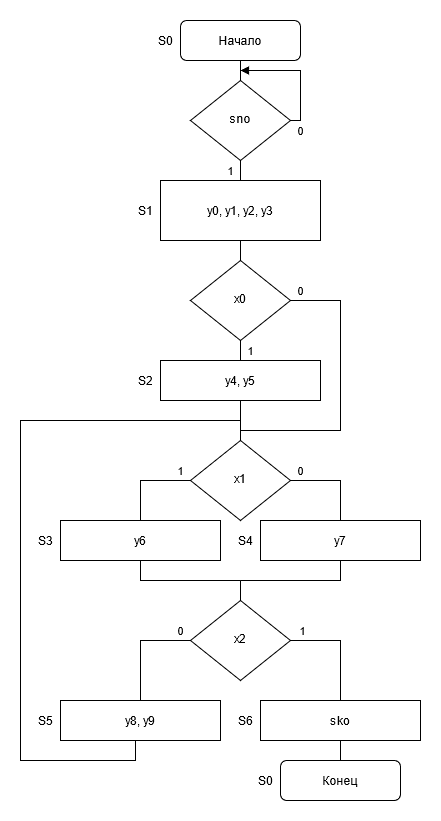


Рис. 3.11 Разметка закодированного графа микропрограммы для ее интерпретации автоматом МУРА

В таблице 3.5 показаны переходы автомата МУРА, условия переходов и формируемые им выходные сигналы.

На рис. 3.12 представлен граф переходов управляющего автомата МУРА.

Таблица 3.5

Таблица переходов автомата МУРА

|  |  |  |  |
| --- | --- | --- | --- |
| Состояние St | Условие перехода | Состояние St+1 | Выходные сигналы |
| S0 |  | S1 | y0, y1, y2, y3 |
| S0 |  | S0 | --- |
| S1 |  | S2 | y4, y5 |
| S1 |  | S3 | y6 |
| S1 |  | S4 | y7 |
| S2 |  | S3 | y6 |
| S2 |  | S4 | y7 |
| S3 |  | S6 | sko |
| S3 |  | S5 | y8, y9 |
| S4 |  | S6 | sko |
| S4 |  | S5 | y8, y9 |
| S5 |  | S3 | y6 |
| S5 |  | S4 | y7 |
| S6 | --- | S0 | --- |

Изображение выглядит как текст

Автоматически созданное описание

Рис. 3.12 Граф управляющего автомата МУРА

В листинге 3.5 приведено VHDL описание нового архитектурного тела arch\_moore для УА в виде поведенческого описания автомата МУРА.

 1:  -- В этом файле содержится одно из описаний архитектурного тела

 2:  -- УА в виде автомата МУРА. Имя архитектуры arch\_moore. Описание создано путем разметки

 3:  -- закодированного графа микропрограммы, в соответствии с рисунком 3.11

 4:  -- УА формирует необходимую последовательность

 5:  -- управляющих сигналов y в зависимости от значений логических условий x

 6:

 7:  library IEEE;

 8:  use IEEE.STD\_LOGIC\_1164.ALL;

 9:  use IEEE.STD\_LOGIC\_ARITH.ALL;

10:  use IEEE.STD\_LOGIC\_UNSIGNED.ALL;

11:

12:  architecture arch\_moore of ControlUnit is

13:  type T\_state is(s0,s1,s2,s3,s4,s5,s6); -- используем перечислимый тип для состояний УА

14:  signal state,Next\_state:T\_state;   -- текущее состояние УА, следующее состояние УА

15:     begin

16:     NS:process(state,x,sno) -- этот процесс формирует следующее состояние УА,

17:                                     -- которое зависит от текущего состояния, логических условий, sno

18:     begin

19:     Next\_state<=s0; -- следующее s0

20:     case state is

21:      when s0 =>

22:         if(sno = '1') -- если есть сигнал sno,

23:             then Next\_state <= s1;  -- то следующее s1

24:         else Next\_state <= s0;  -- иначе s0

25:         end if;

26:      when s1 =>

27:         if(x(0) = '1') -- если знаковый разряд равен 1,

28:             then Next\_state <= s2; -- то следующее s2

29:         elsif (x(1) = '1') -- если знаковый разряд равен 0 и анализируемый разряд равен 1,

30:             then Next\_state <= s3; -- то следующее s3

31:         else  Next\_state <= s4; -- если знаковый и анализируемый разряд равны 0, то следующее S4

32:         end if;

33:     when s2 =>

34:         if (x(1) = '1') -- если анализируемый разряд равен 1,

35:             then Next\_state <= s3; -- то следующее s3

36:         else Next\_state <= s4; -- если анализируемый разряд равен 0, то следующее s4

37:         end if;

38:      when s3 =>

39:         if(x(2) = '1') --   если это последний разряд,

40:             then Next\_state <= s6; -- то следующее s6

41:         else Next\_state <= s5; -- иначе следующее s5

42:         end if;

43:      when s4 =>

44:         if(x(2) = '1') --   если это последний разряд,

45:             then Next\_state <= s6; -- то следующее s6

46:         else Next\_state <= s5; -- иначе следующее s5

47:         end if;

48:      when s5 =>

49:         if (x(1) = '1') -- если анализируемый разряд равен 1,

50:             then Next\_state <= s3; -- то следующее s3

51:         else Next\_state <= s4; -- иначе следующее s4

52:         end if;

53:      when s6 => Next\_state <= s0; -- из s6 безусловно в s0

54:     end case;

55:  end process NS;

56:

57:   -- Формирование управляющих сигналов

58:    y<="0000001111" when state=s1 else   -- mk1

59:       "0000110000" when state=s2 else   -- mk2

60:       "0001000000" when state=s3 else   -- mk3

61:       "0010000000" when state=s4 else   -- mk4

62:       "1100000000" when state=s5 else   -- mk5

63:       "0000000000";                         -- nmk

64:

65:  -- Формирование сигнала конца операции

66:       sko<='1' when state=s6 else '0';  -- только, если состояние s6

67:

68:   --формирование текущего состояния

69:    state <=s0 when set ='1' else                --если есть сигнал начальной установки

70:    Next\_state when clk'event and clk='0'    --по отрицательному фронту clk

71:    else state;

72:   end arch\_moore ;

Листинг 3.5 VHDL-описание архитектурного тела УА в виде автомата МУРА

### Комплексная отладка операционного устройства с управляющим автоматом МУРА

Для того, чтобы определить употребление архитектурного тела arch\_moore для компонента ControlUnit, вместо arch\_mealy, создадим модуль декларации конфигурации. Содержимое модуля декларации приведено в листинге 3.6.

 1:  -- В этом файле содержится декларация конфигурации ОУ

 2:  -- В качестве архитектурного тела УА используется

 3:  -- поведенческое описание автомата МУРА

 4:

 5:  configuration moore\_for\_OY of OY is -- имя конфигурации moore\_for\_OY

 6:  for struct -- для архитектурного тела struct

 7:     for unit\_YA: ControlUnit -- для экземпляра компонента ControlUnit с именем unit\_YA

 8:         use entity work.ControlUnit(arch\_moore); -- использовать архитектурное тело arch\_moore из библиотеки проекта

 9:

10:     end for;

11:  end for;

12:  end moore\_for\_OY; -- завершение конфигурации

Листинг 3.6 Декларация конфигурации

Протестируем ОУ с архитектурным телом УА в виде автомата МУРА в стенде TEST\_OY. Результаты тестирования приведены на рис. 3.13.

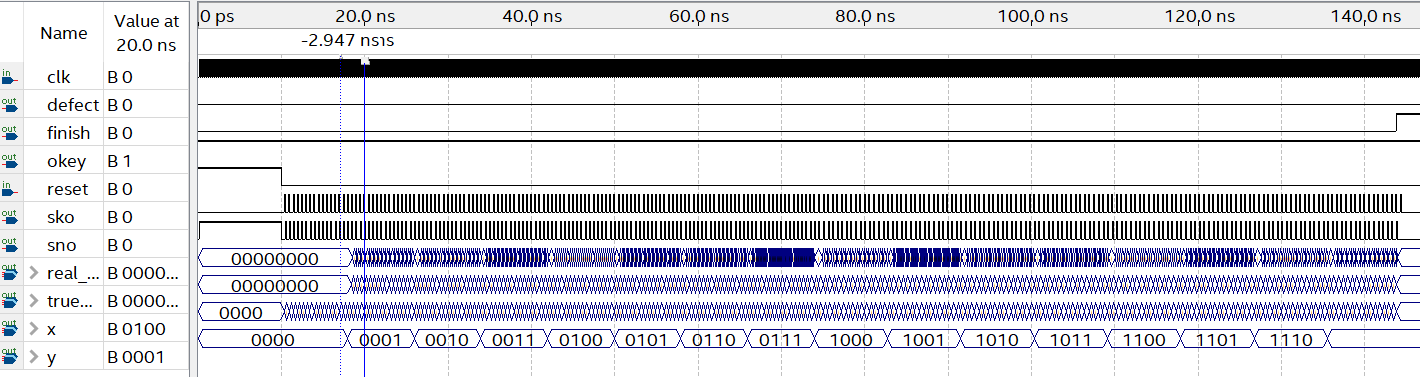


Рис. 3.13 Тестирование ОУ с архитектурным телом arch\_moore в стенде TEST\_OY

# Заключение

В результате выполнения курсовой работы я приобрел начальные навыки в проектировании цифровых устройств с использованием профессиональных систем автоматизации проектирования и познакомился c важными темами в области проектирования аппаратных средств вычислительной техники.

Выполняя первый модуль, посвященный абстрактным автоматам, я научился для заданного автомата МИЛИ строить эквивалентный автомат МУРА, создавать на языке VHDL спецификации автоматов обоих типов, готовить тестовые наборы для верификации спецификаций автоматов, выполнять верификацию VHDL моделей с помощью системы моделирования ModelSim, создавать, а также использовать среду Testbench для отладки VHDL-моделей проектируемых объектов.

Во втором модуле выполнялась задача проектирования структурных автоматов МИЛИ и МУРА. В результате я научился применять канонический метод структурного синтеза автоматов МИЛИ и МУРА в заданном базисе с использованием элементов памяти заданного типа, находить логические функции, выполнять их минимизацию с помощью карт Карно и представлять в разных базисах, создавать проекты в профессиональной САПР QUARTUS II с использованием библиотечных элементов или с помощью их описания на языке VHDL, выполнять структурную декомпозицию сложных проектов на более простые составные компоненты, создавать структурные описания проектов на языке VHDL, выполнять верификацию проектов с помощью системы функционального моделирования, понимать структуру и использовать дополнительные средства для эффективной верификации и автоматизации тестирования проектов.

В результате выполнения 3 модуля, посвящённого операционным автоматам, я научился применять конструктивный прием декомпозиции любого проектируемого операционного устройства на две части: операционную и управляющую с последующим применением формализованных процедур их описания на языке VHDL и выполнением высокоуровневого синтеза в САПР QUARTUS II, создавать параметризованные поведенческие описания проектируемых устройств, реализующих некоторый алгоритм преобразования цифровой информации, на языке VHDL, выполнять верификацию созданных описаний, используя функциональное моделирование, выполнять синтез управляющего автомата в виде автомата МИЛИ и автомата МУРА, создавать структурные описания устройств в виде совокупности компонентов и связей между ними, использовать понятие конфигурации для выбора архитектурного тела объекта проекта или выбора нового объекта вместо существующего, создавать тестовые наборы для верификации проектов в QUARTUS II, выполнять верификацию проектов с помощью функционального моделирования.

# Список литературы

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