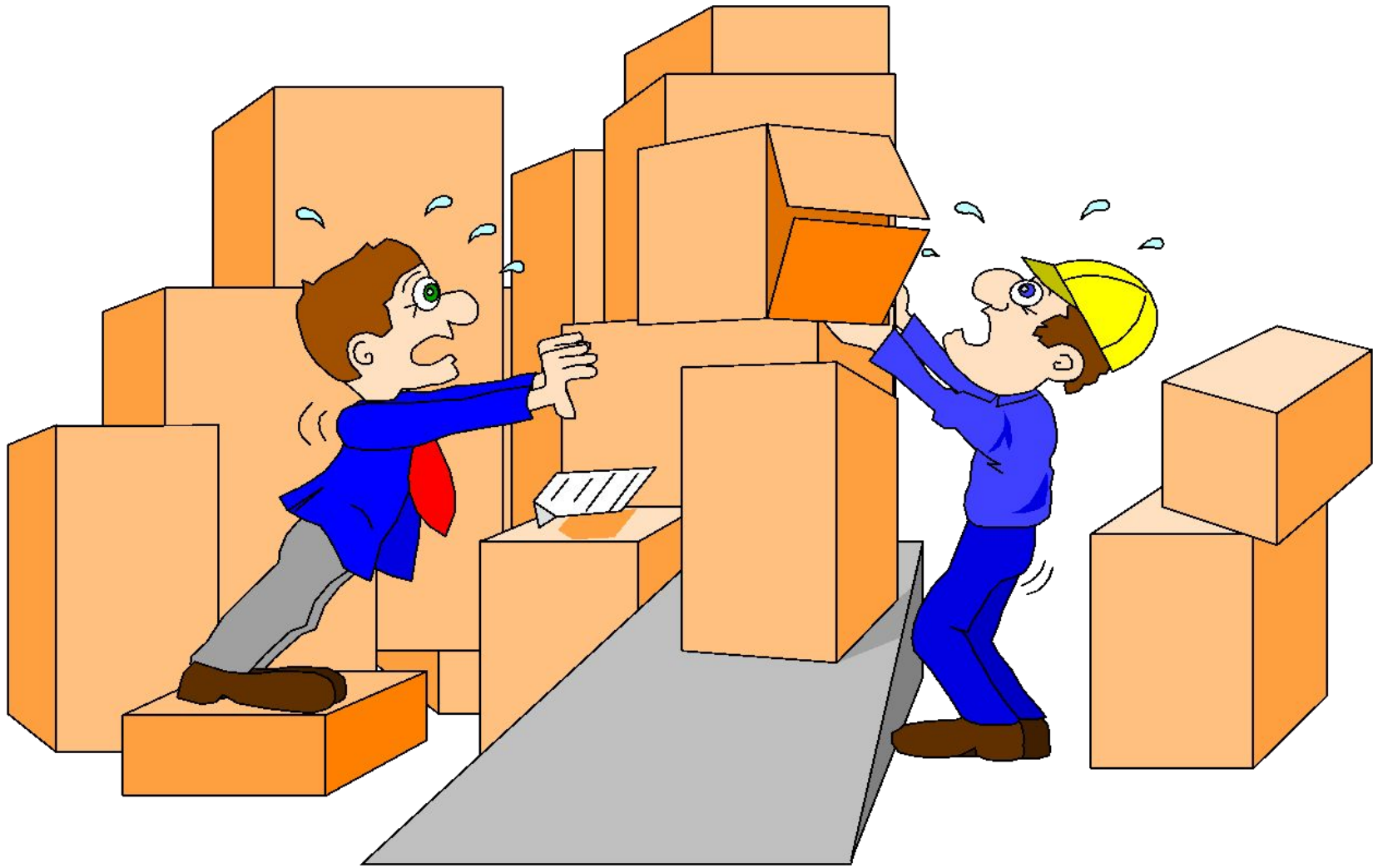
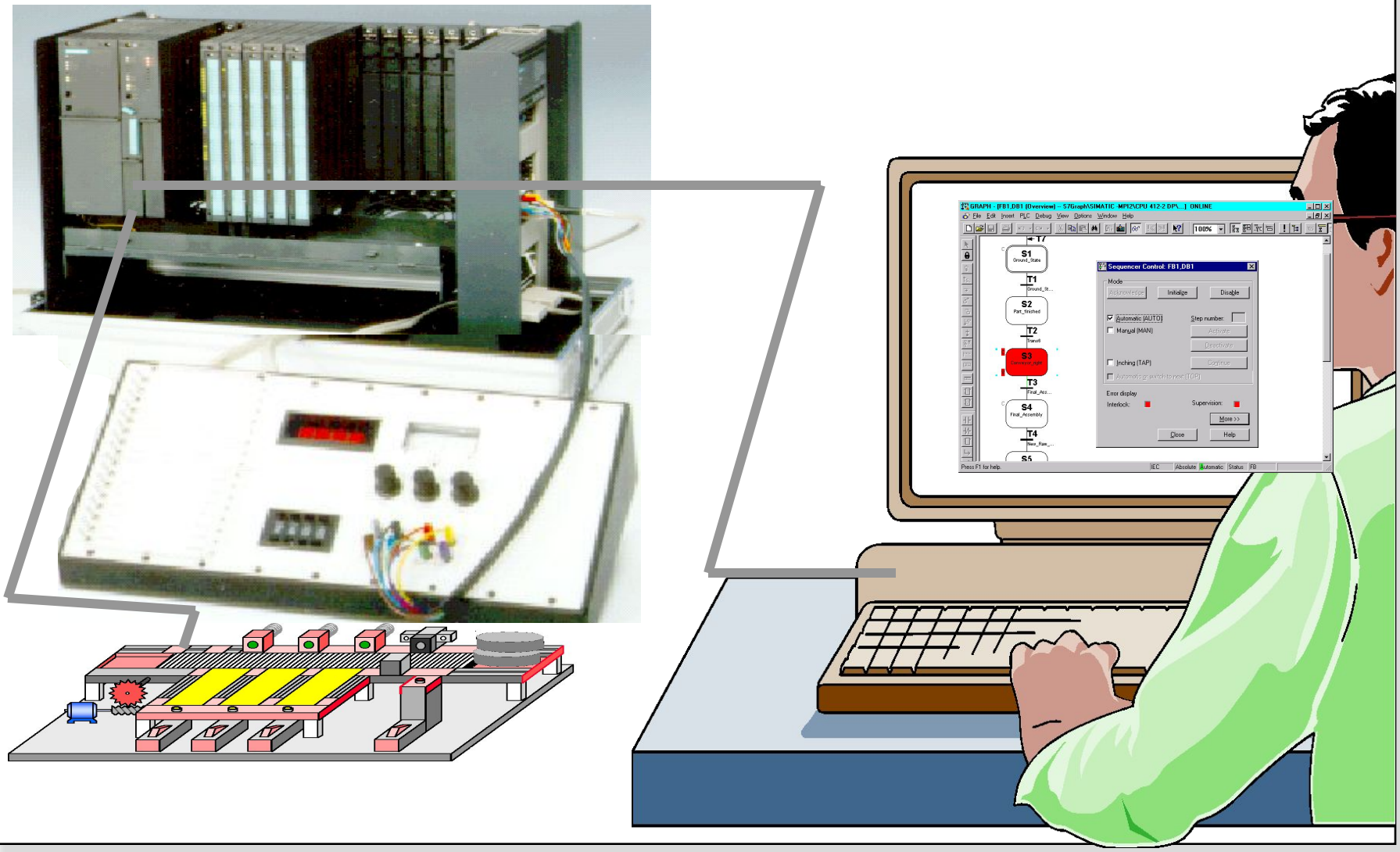
Отладка и пуск

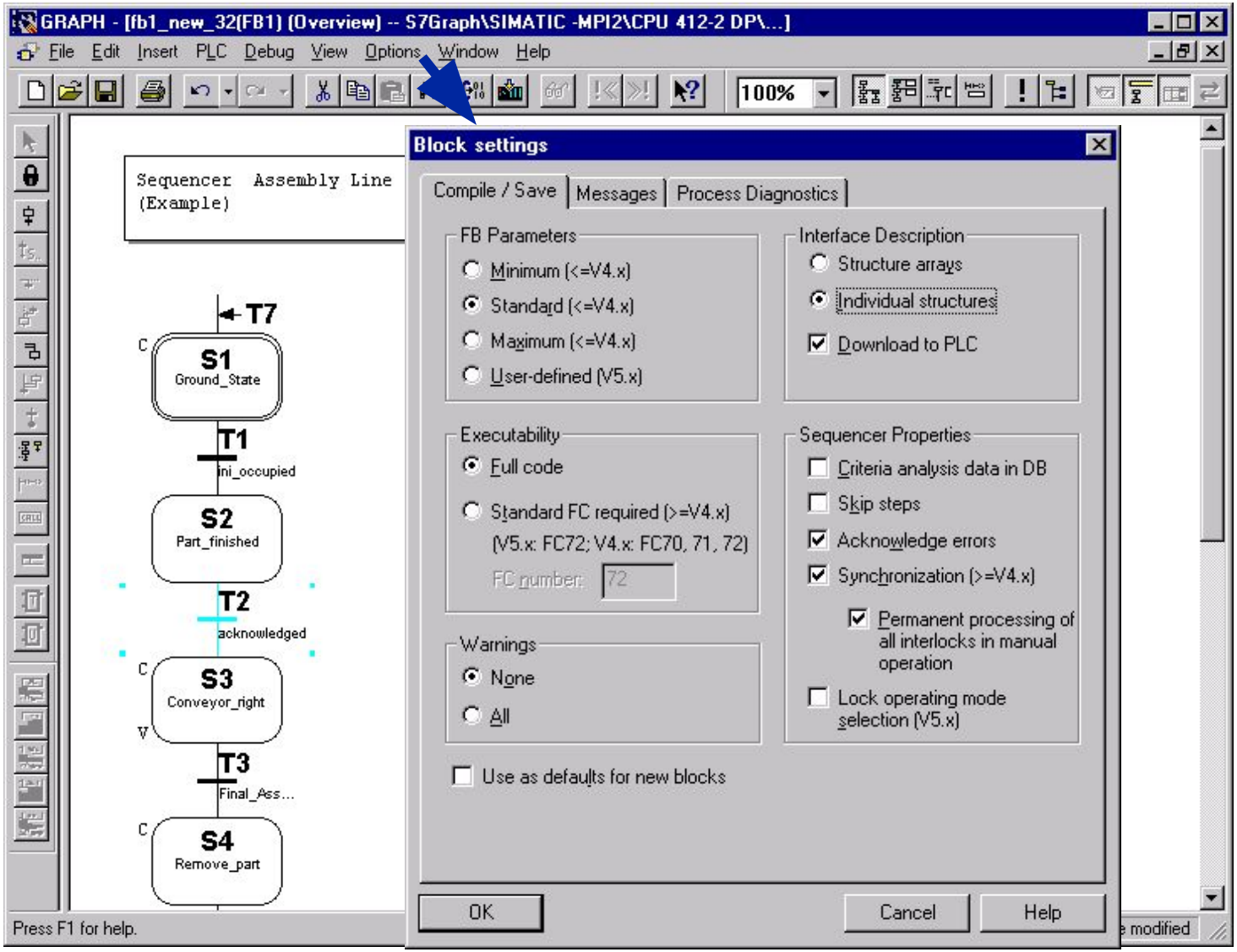


Отладка и пуск : Цель



Date: *
File: GRAPH_04e.2

Страница Compile / Save (Компиляция/Сохранение) (1)



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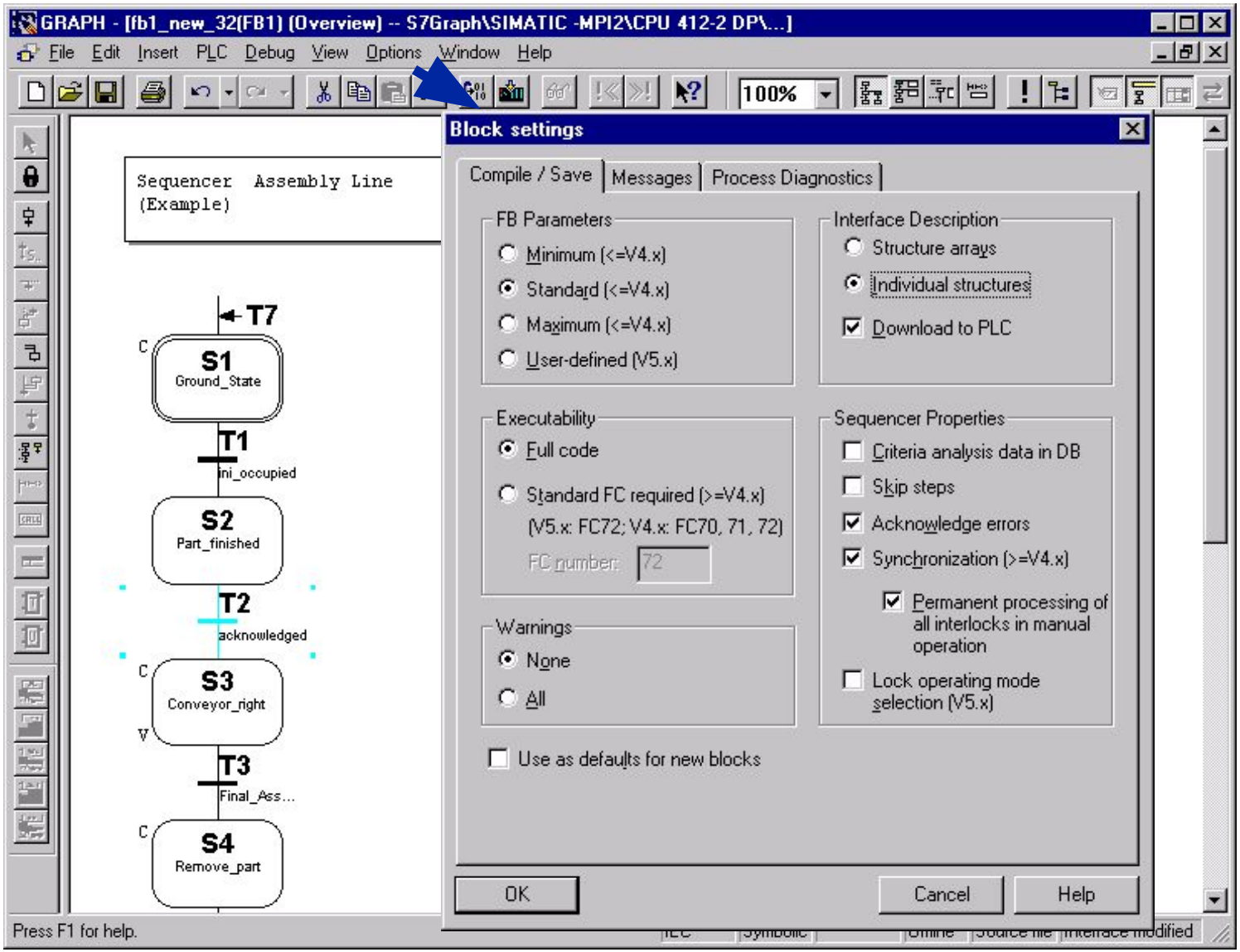
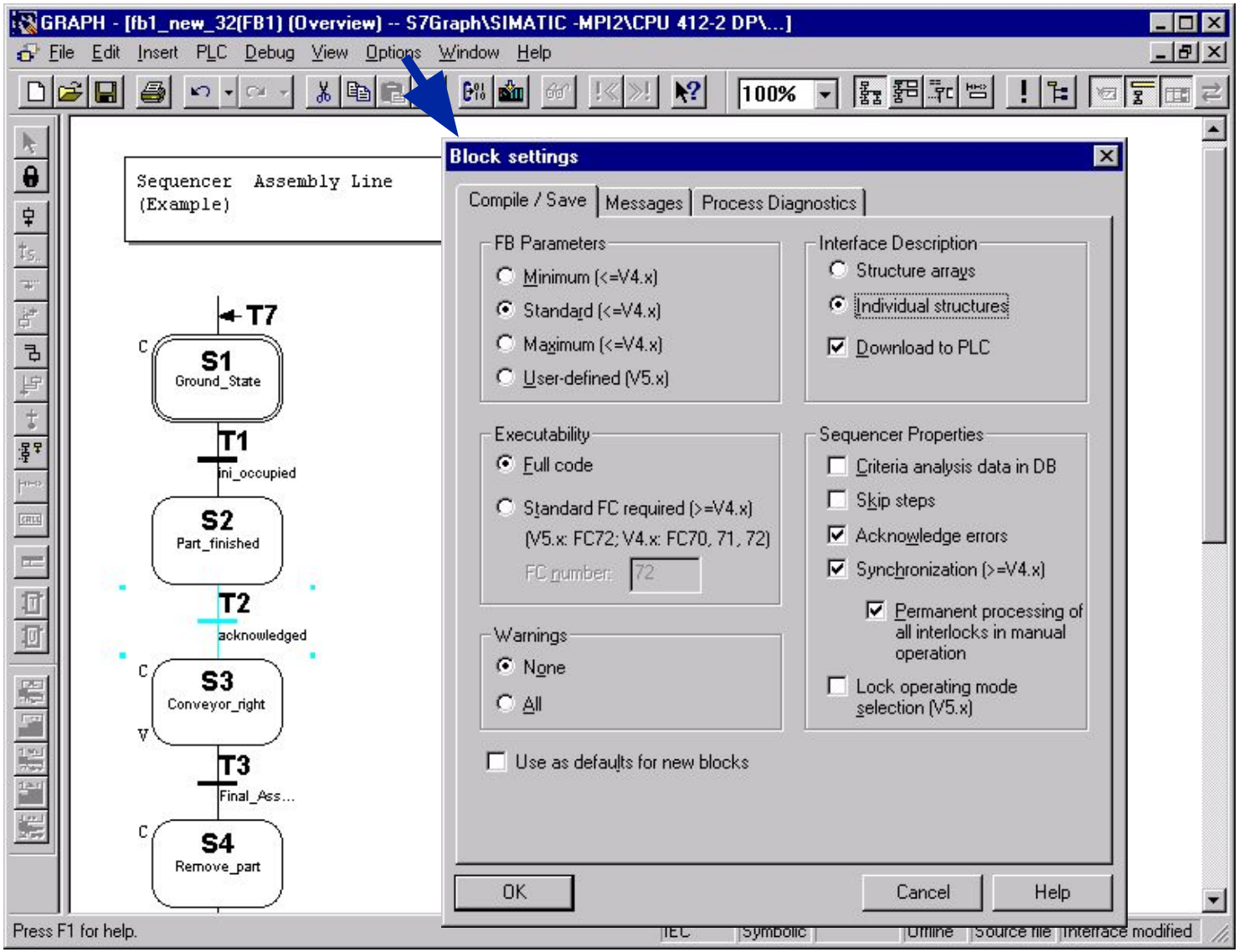
File: GRAPH_04e.3

Страница Compile / Save (Компиляция/Сохранение) (2)

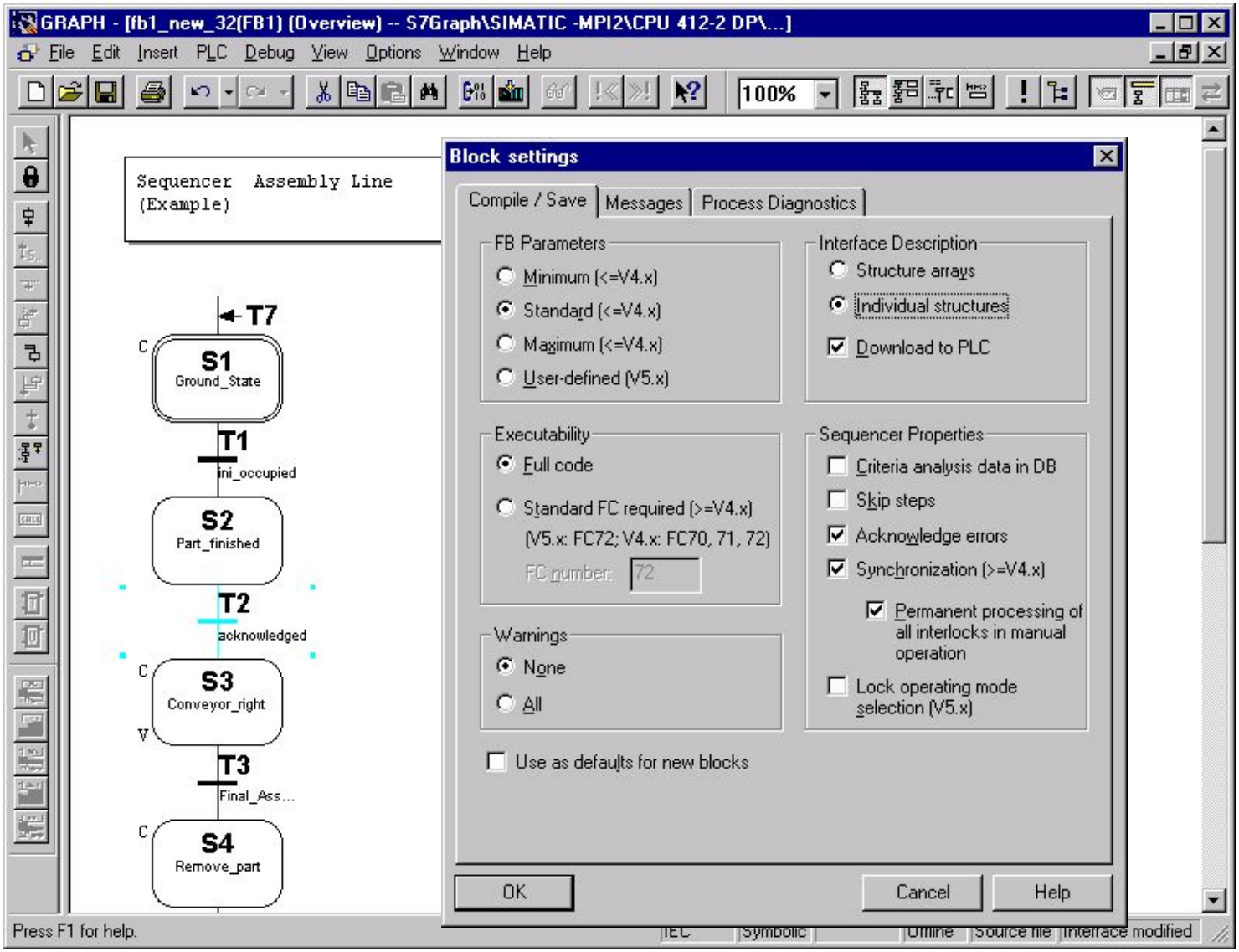


Страница Compile / Save (Компиляция/Сохранение) (3)



Date: *
File: GRAPH_04e.5

Страница Compile / Save (Компиляция/Сохранение) (4)



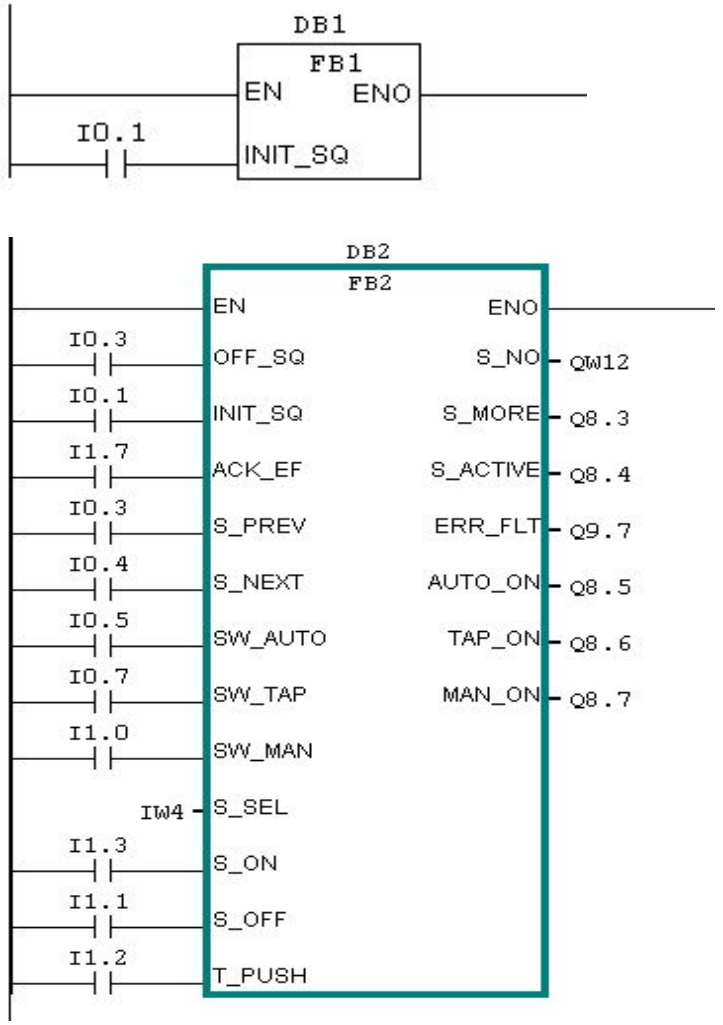
Интеграция в OB1, типы вызова FB (1)

Минимум параметров вызова

- 1 input parameter for sequencer control

Параметры стандартного вызова

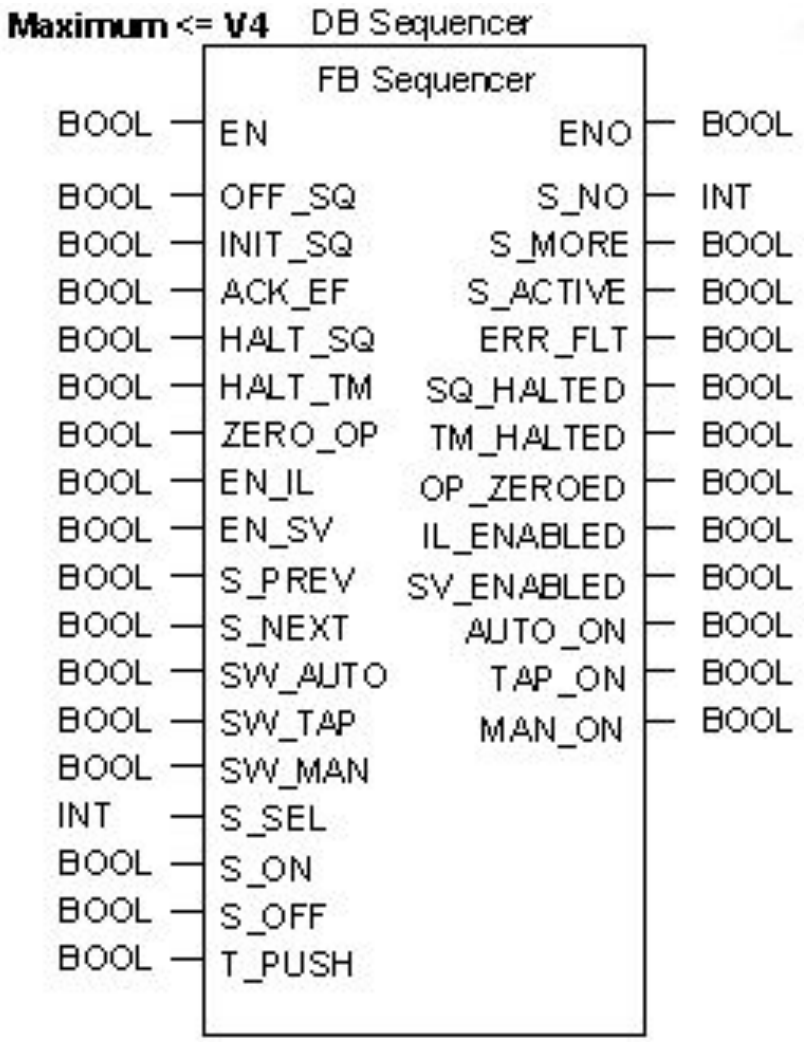
- 12 input parameters for sequencer control
- 7 output parameters for displaying operating states
- Input/output parameters do not need to be set (default values)



Типы вызова FB (2)

- **Maximum call parameters**

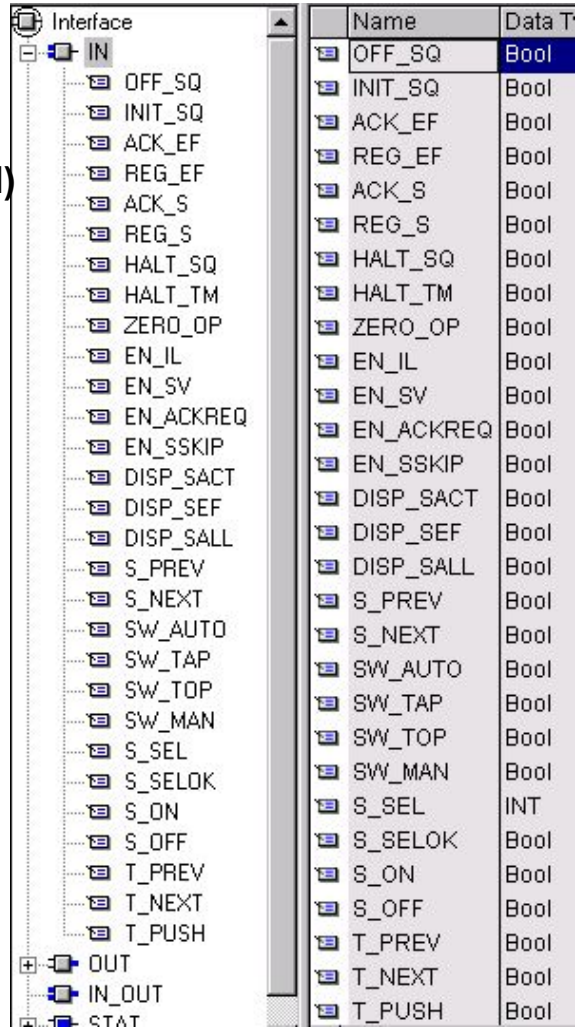
  - 17 input parameters for sequencer control
  - 12 output parameters for displaying operating states
  - Parameters do not need to be set (default values)

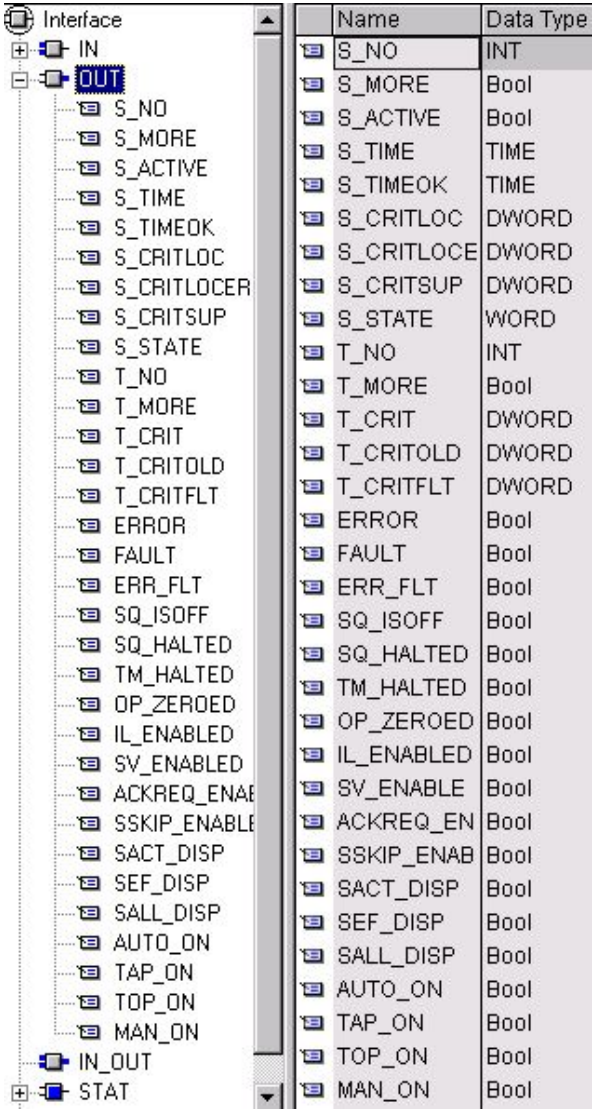


Типы вызова FB (3)

- **Maximum V5 (user-defined)**

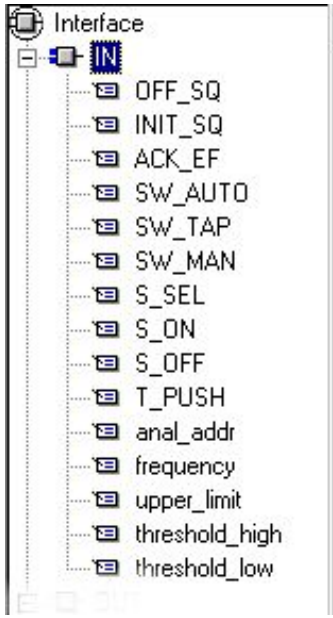
  - 29 input parameters for sequencer control
  - 32 output parameters for displaying operating states
  - Parameters need not be set
  - Parameters that are not required can be deselected
  - Additional parameters can be custom-defined





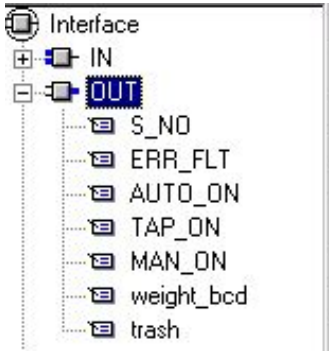
Установка пользовательских параметров (V5.0 и выше)

Input parameter set:



	Name	Data Type	Initial Value	Comment
	OFF_SQ	Bool	FALSE	Turn sequencer off (OFF_SEQUENCE)
	INIT_SQ	Bool	FALSE	Set sequencer to initial state (INIT_SEQUENCE)
	ACK_EF	Bool	FALSE	Acknowledge all errors and disturbances (ACKNOWLEDG
	SW_AUTO	Bool	FALSE	Set automatic mode (SWITCH_MODE_AUTOMATIC)
	SW_TAP	Bool	FALSE	Set inching mode 'T and T_PUSH' (SWITCH_MODE_TRAN
	SW_MAN	Bool	FALSE	Set manual mode (SWITCH_MODE_MANUAL)
	S_SEL	INT	0	Select step for display in S_NO (STEP_SELECT)
	S_ON	Bool	FALSE	Activate step displayed in S_NO (STEP_ON)
	S_OFF	Bool	FALSE	Deactivate step displayed in (STEP_OFF)
	T_PUSH	Bool	FALSE	Enable transition to switch in SW_TAP and SW_TOP (PUS
	anal_addr	int	0	
	frequency	Bool	FALSE	
	upper_limit	Real	0.000000E+0	
	threshold_hig	int	0	
	threshold_lo	int	0	

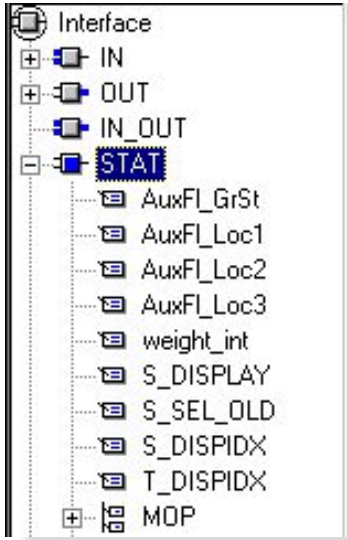
Output parameter set:



	Name	Data Type	Initial Value	Comment
	S_NO	INT	0	Step number (STEP_NUMBER)
	ERR_FLT	Bool	FALSE	Group error interlocks or supervisions (IL_ERROR_OR_S
	AUTO_ON	Bool	FALSE	SW_AUTO mode is active (AUTOMATIC_IS_ON)
	TAP_ON	Bool	FALSE	SW_TAP mode is active (T_AND_PUSH_IS_ON)
	MAN_ON	Bool	FALSE	SW_MAN mode is active (MANUAL_IS_ON)
	weight_bcd	word	W#16#0	
	trash	int	0	

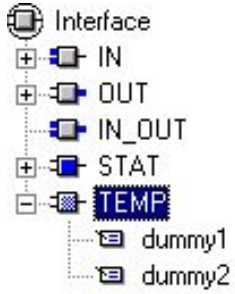
Определенные пользователем статические и временные переменные (V5.0 и выше)

Статические переменные



	Name	Data Type	Initial Value	Comment
	AuxFl_GrSt	Bool	FALSE	Auxiliary flag ground state
	AuxFl_Loc1	Bool	FALSE	Auxiliary flag location 1
	AuxFl_Loc2	Bool	FALSE	Auxiliary flag location 2
	AuxFl_Loc3	Bool	FALSE	Auxiliary flag location 3
	weight_int	int	0	weigth stored as integer number
	S_DISPLAY	INT	0	Internal S_NO display (STEP_DISPLAY_INTERNAL)
	S_SEL_OLD	INT	0	Last S_SEL value (S_SEL_PREVIOUS_VALUE)
	S_DISPIDX	BYTE	B#16#0	Index of the step displayed in S_NO (STEP_DISPLAY_I
	T_DISPIDX	BYTE	B#16#0	Index of the transition displayed in T_NO (TRANSITION
	MOP	STRUCT		Mode (MODE_OF_OPERATION)
	TICKS	STRUCT		Clock speed (TIME_TICKS)
	SQ_FLAGS	STRUCT		Sequencer flags (SEQUENCE_FLAGS)

Временные переменные



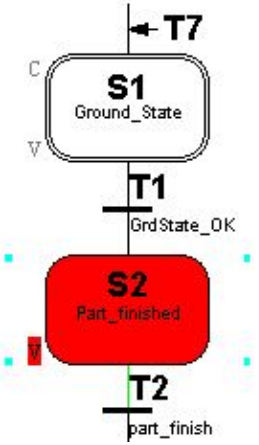
	Name	Data Type	Comment
	dummy1	word	clipboard
	dummy2	dint	reserved

Состояние при обзоре и выводе отдельной страницы

The **test function** visualizes **evolution** and **disturbances** of the sequencer.

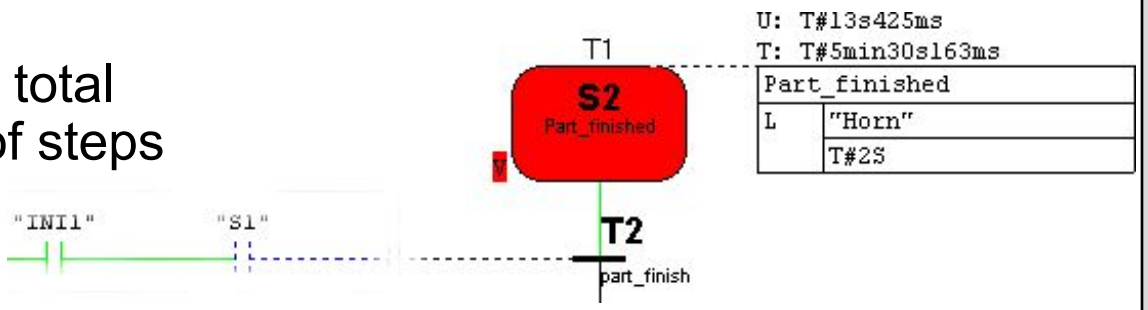
Overview

- Active and disturbed steps
- Valid and satisfied transitions
- Skipped steps and transitions



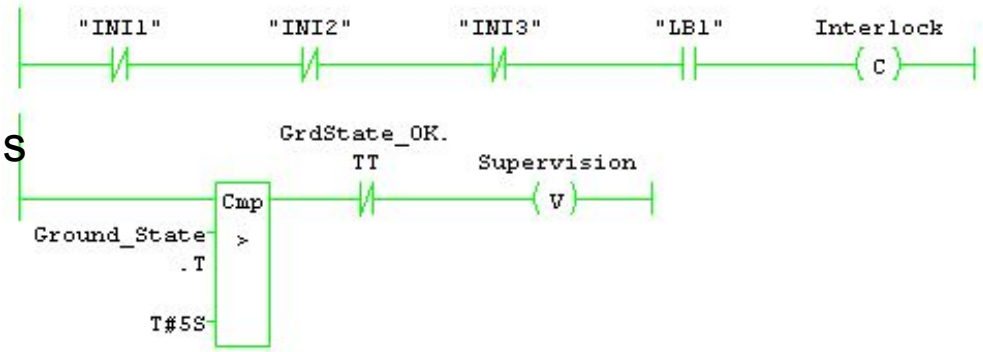
Single Page

- Overview display
- Program status of transitions
- Status of actions
- Undisturbed and total activation time of steps



Состояние при наблюдении отдельного шага (детальный вид)

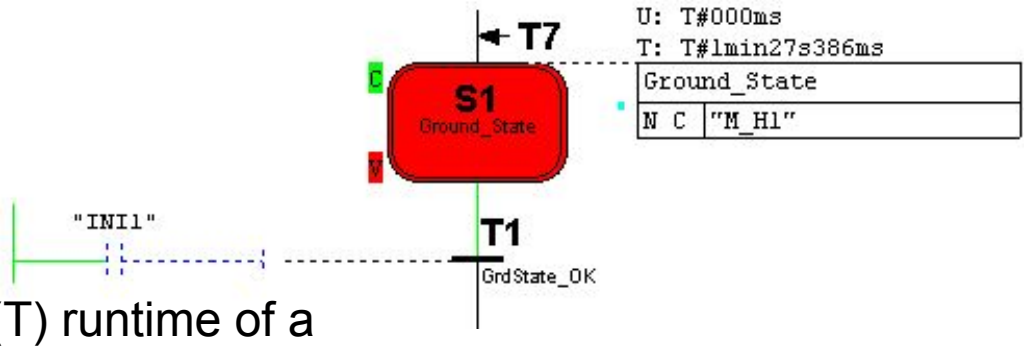
- **Single step display**
  - Active and disturbed steps
  - Valid and satisfied transitions
  - Skipped steps and transitions



- **Состояние программы в LAD/FBD для**
  - Супервизора, блокировки, transition

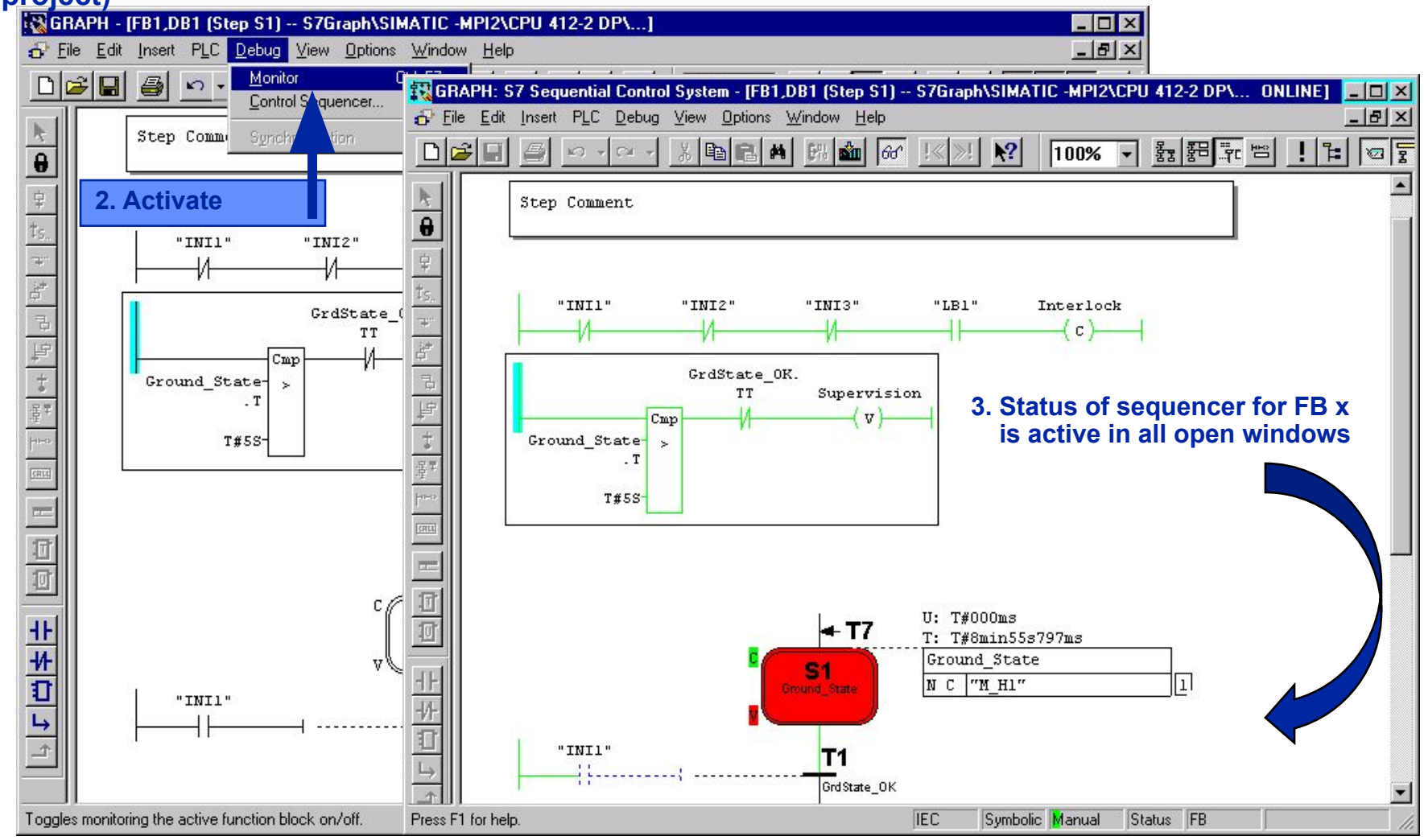
- **Status of actions**
  - Action block

- **Timers**
  - Undisturbed (U) and total (T) runtime of a step

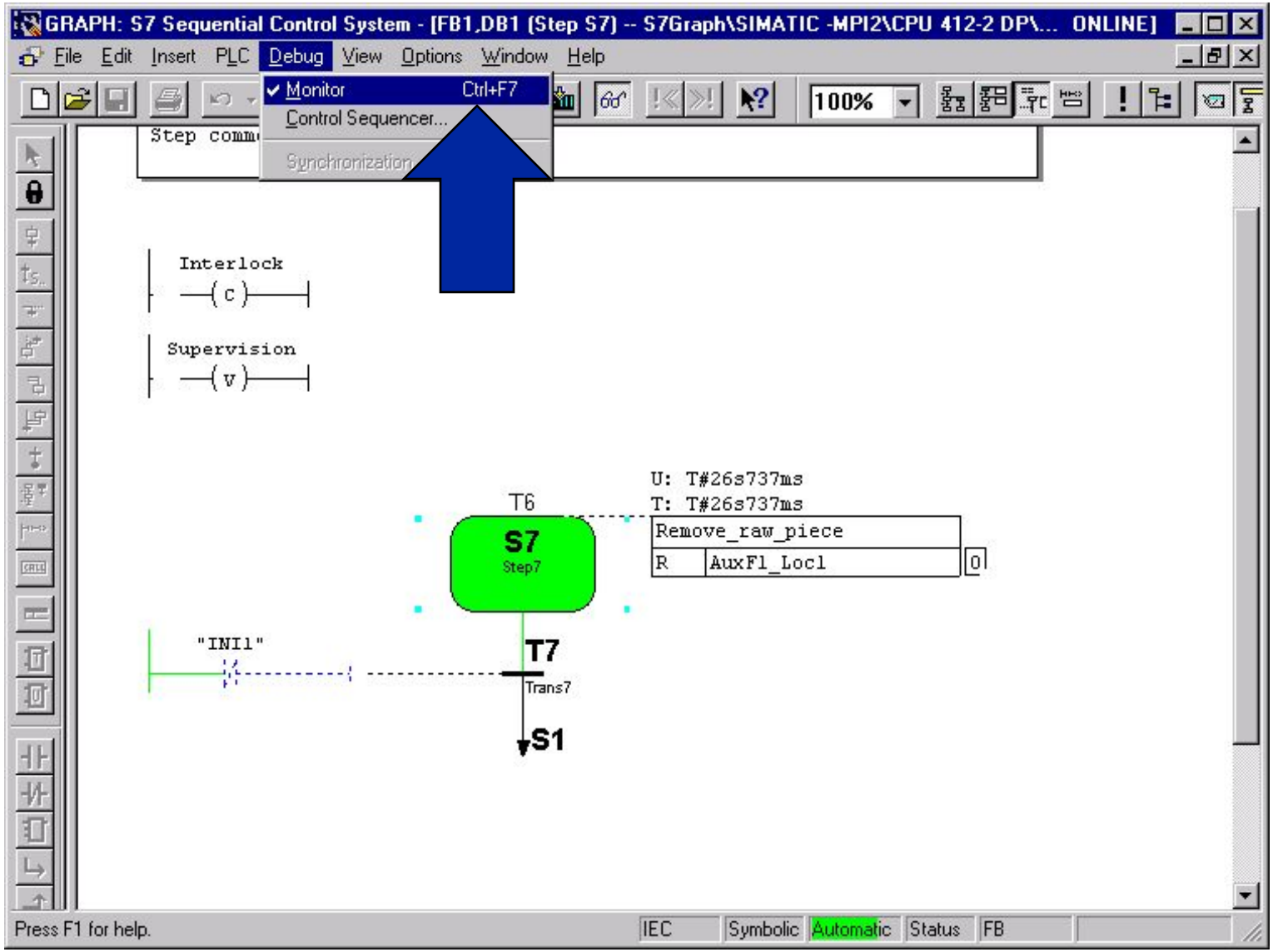


Активация тестовых функций

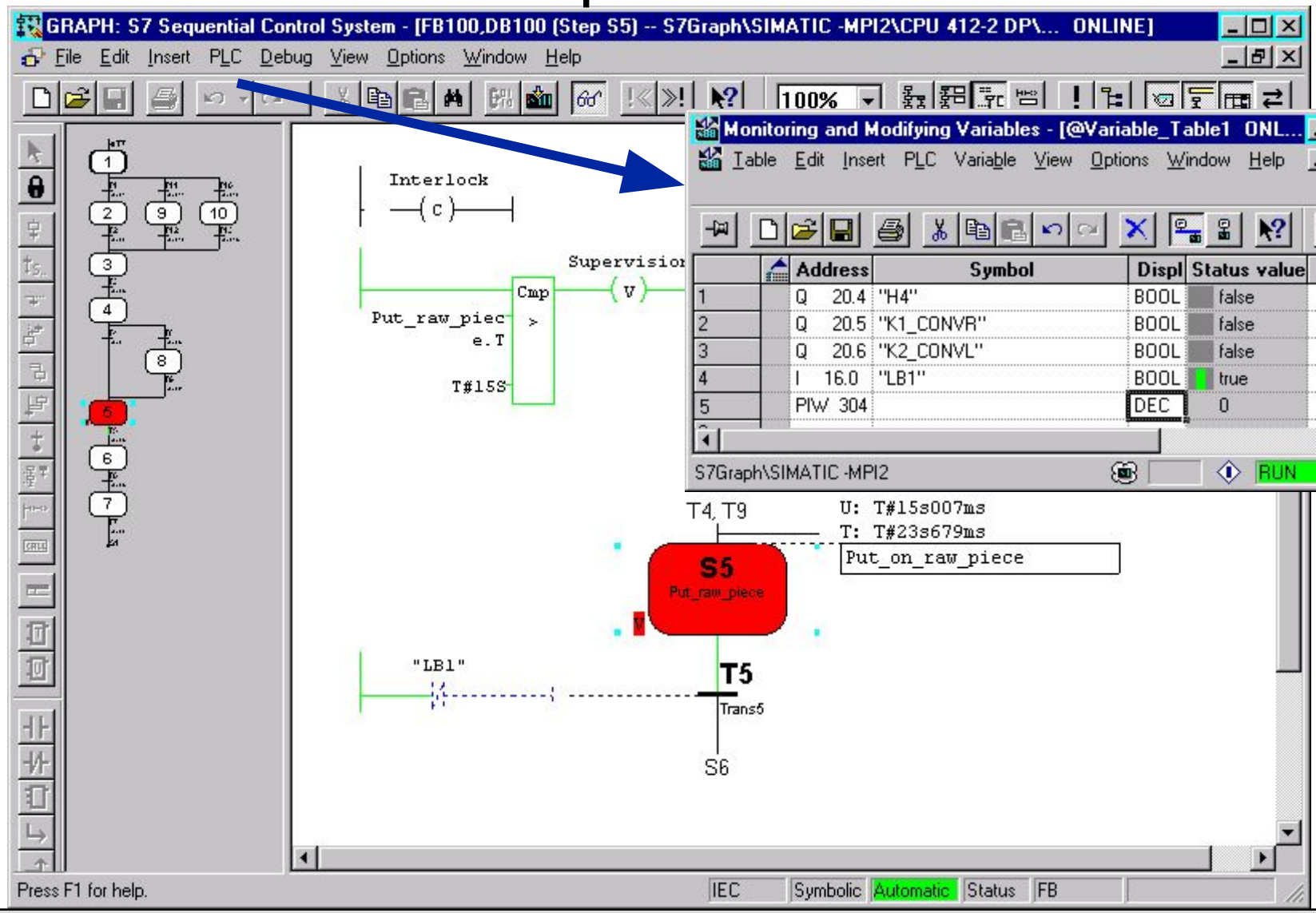
1. S7-GRAPH FB+DB in CPU identical with S7 project (accessible nodes without S7 project)



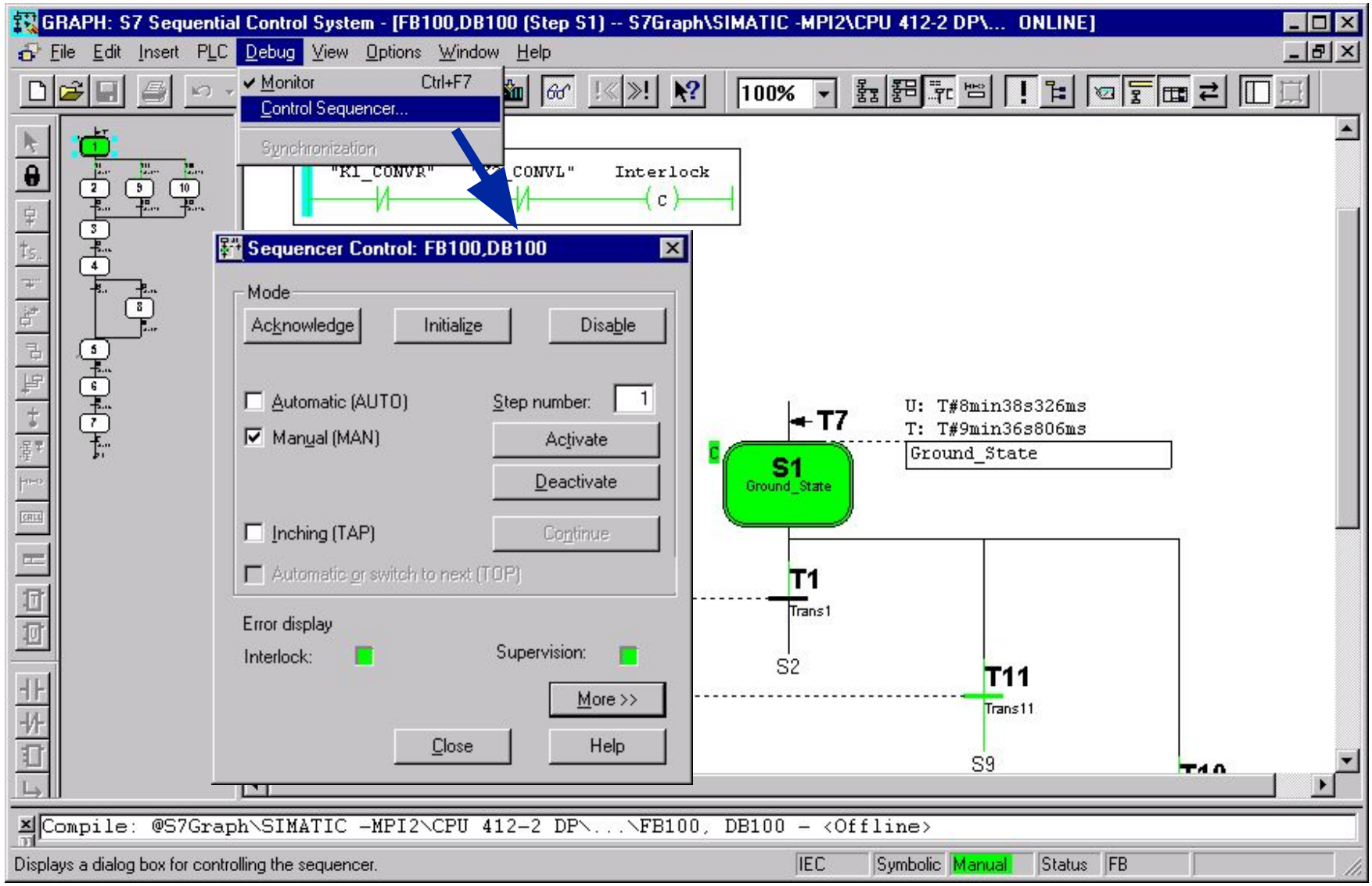
Состояние последовательности и режим программирования



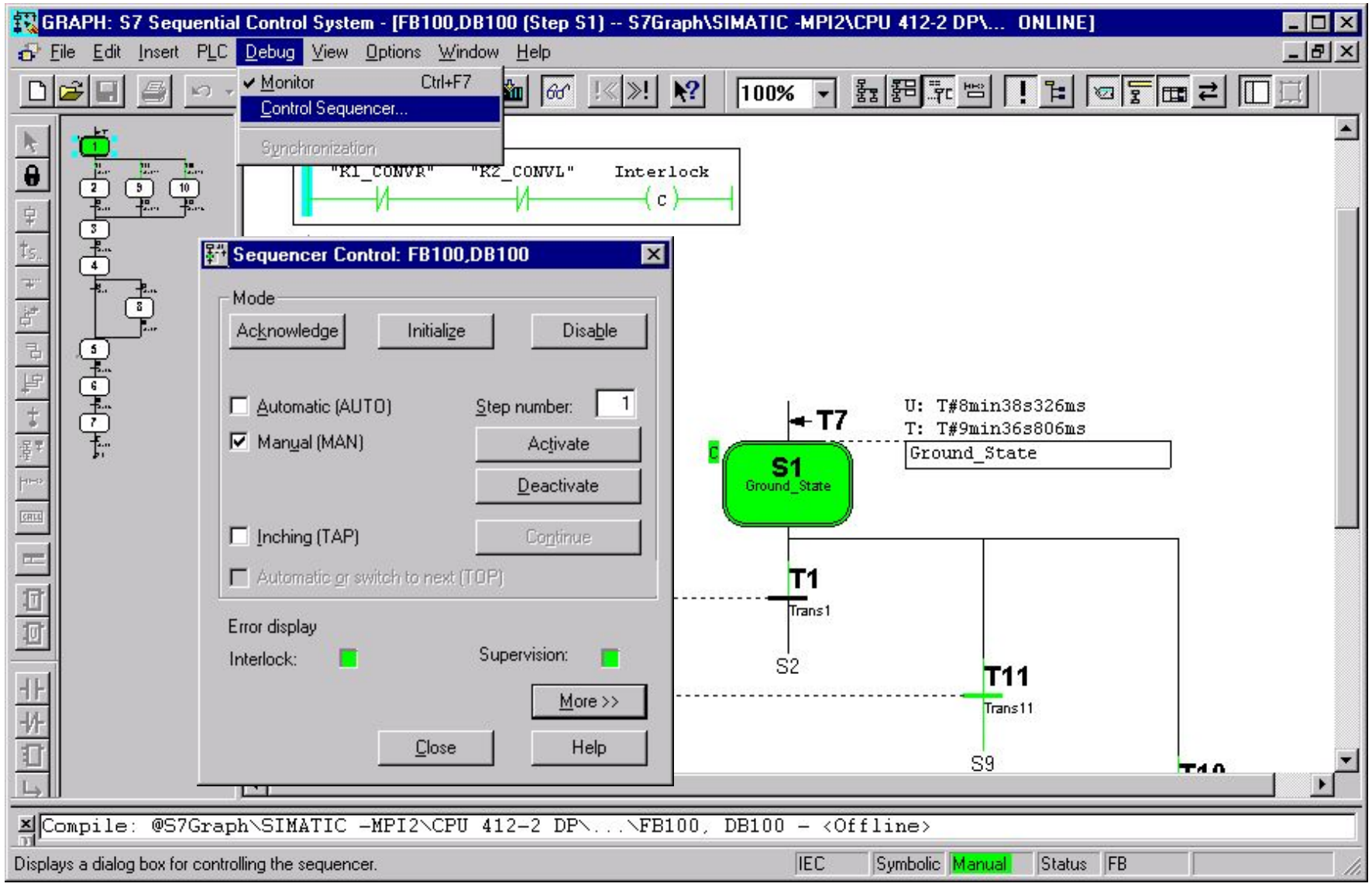
Состояние последовательности, наблюдение и изменение переменных



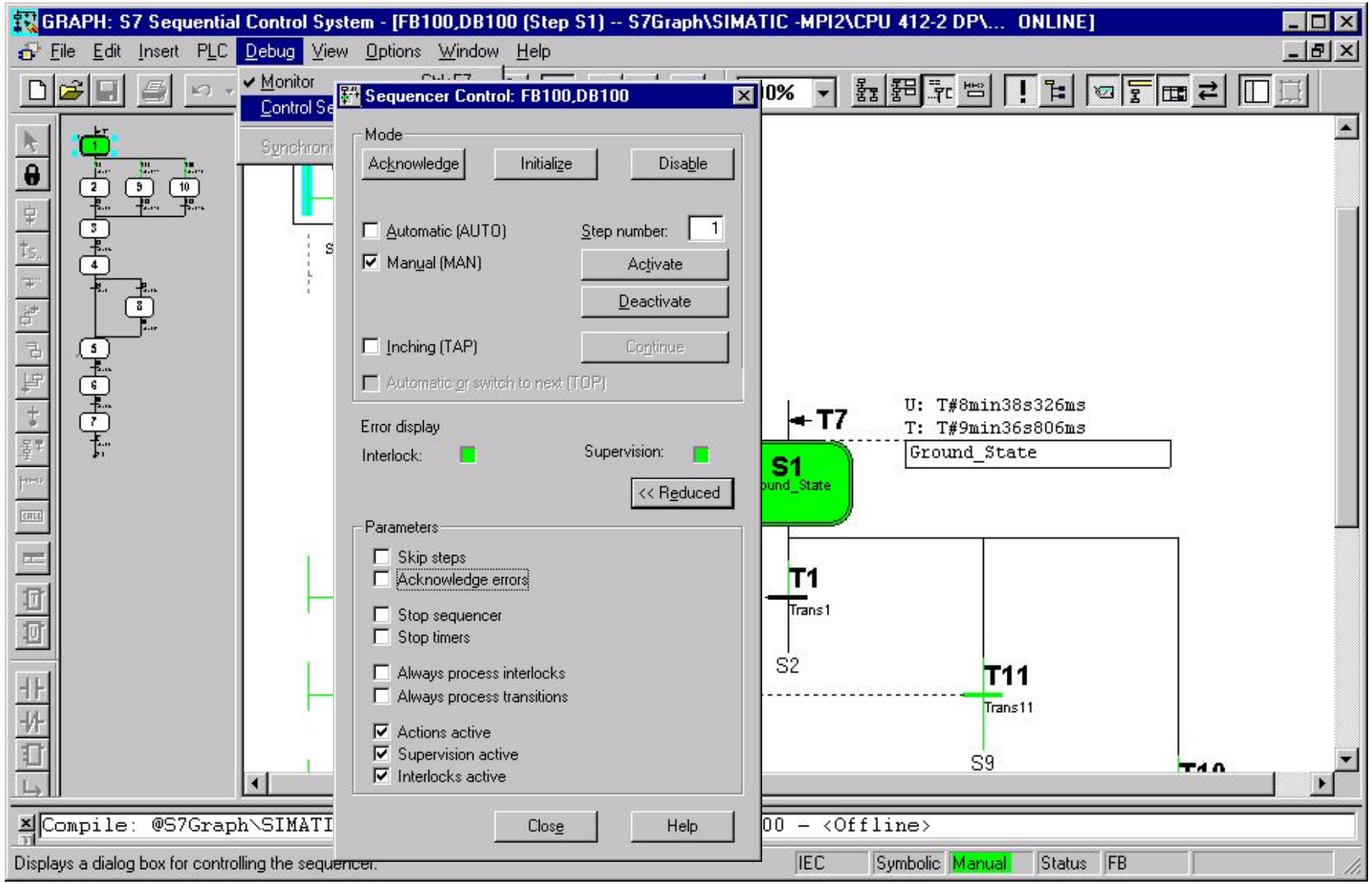
Управляющая последовательность(1)



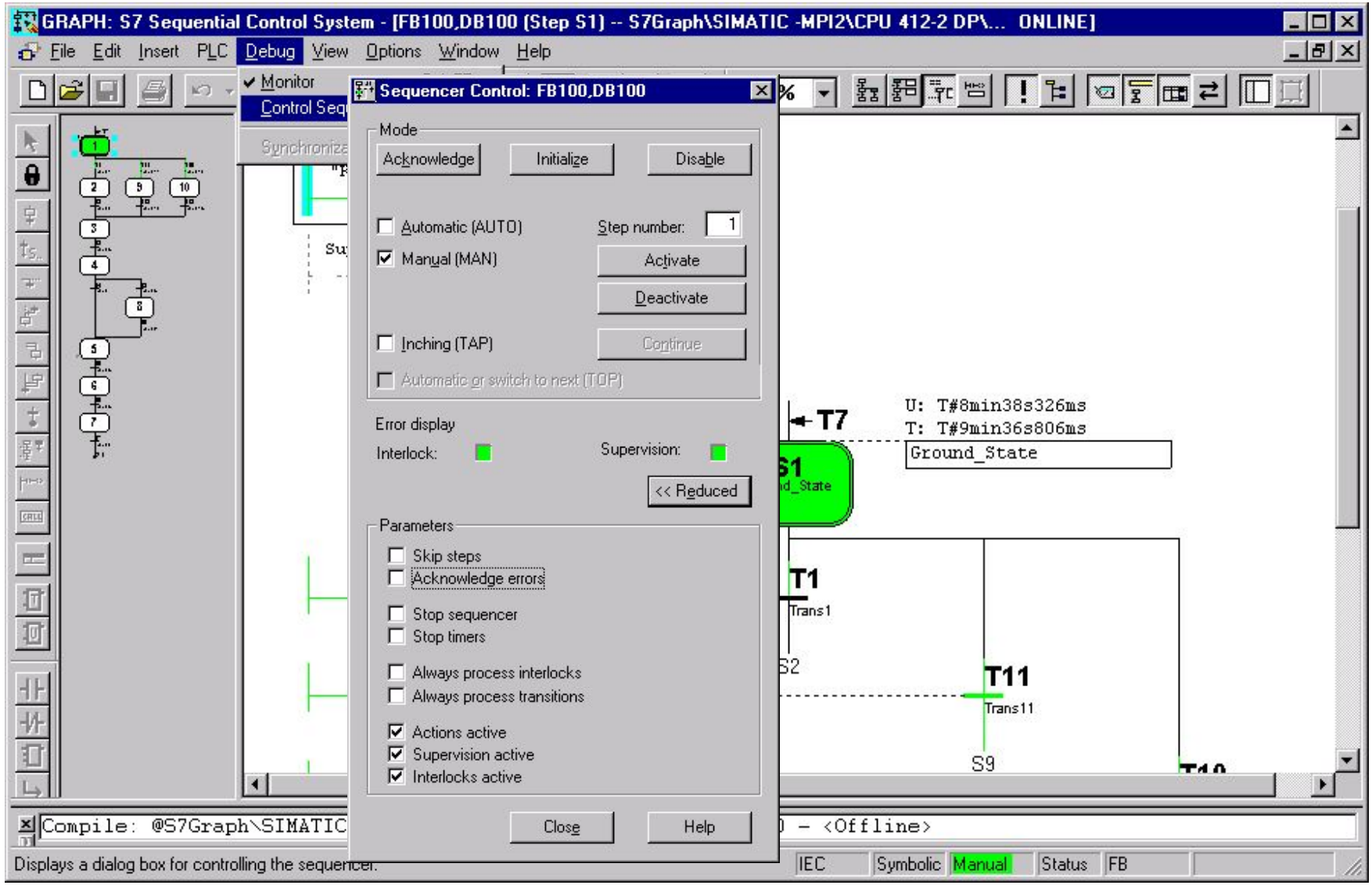
Управляющая последовательность(2)



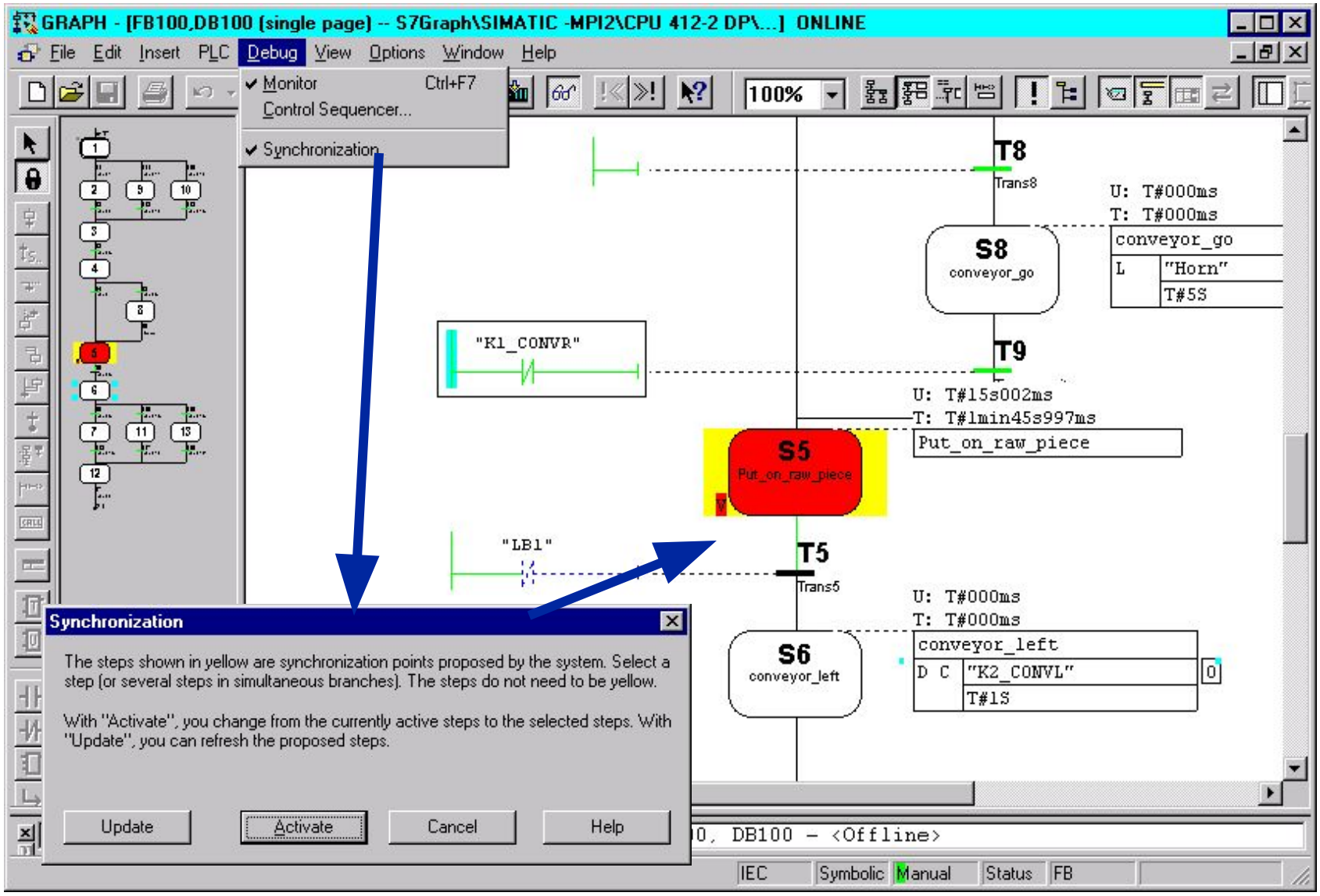
Управляющая последовательность(3)



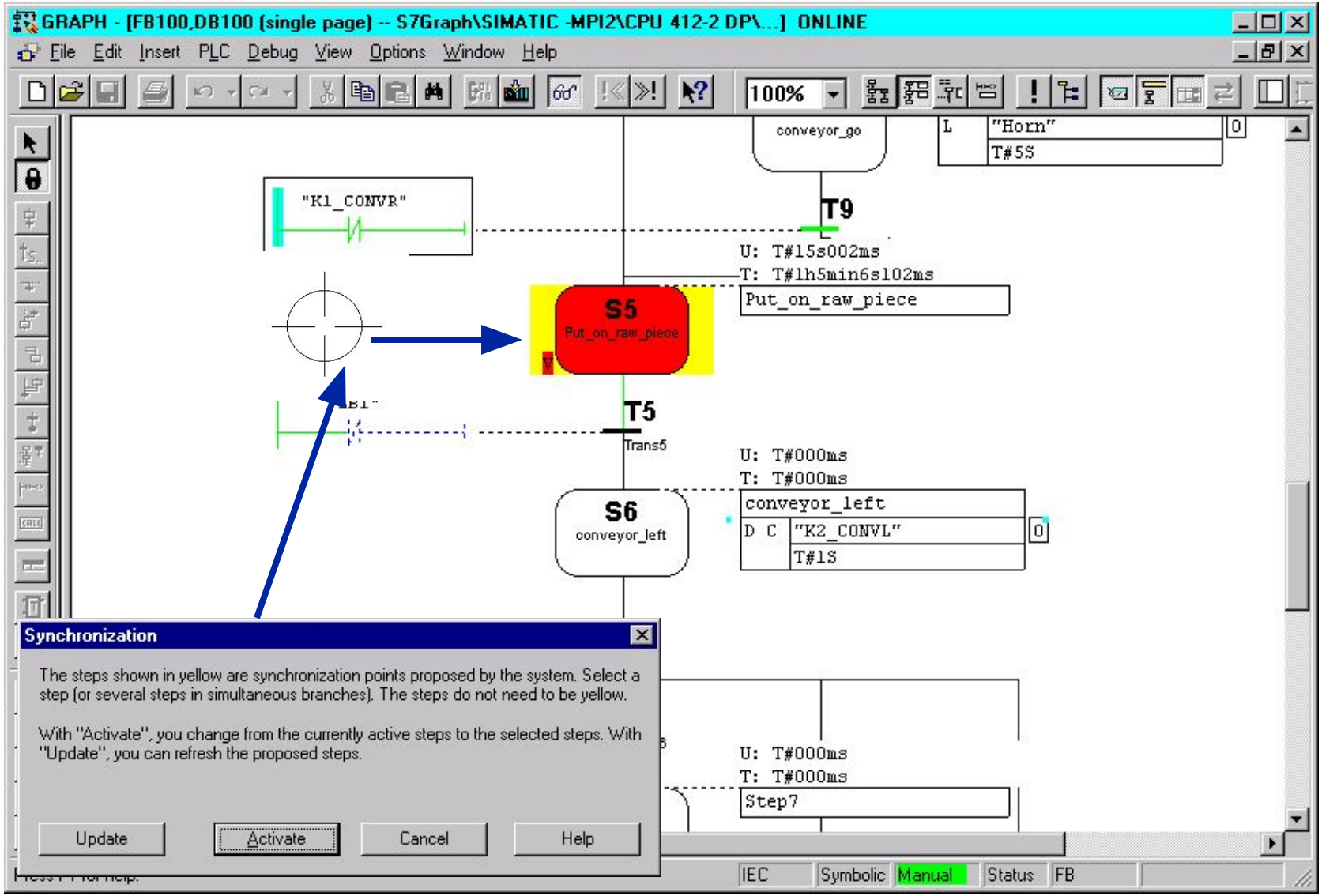
Управляющая последовательность (4)



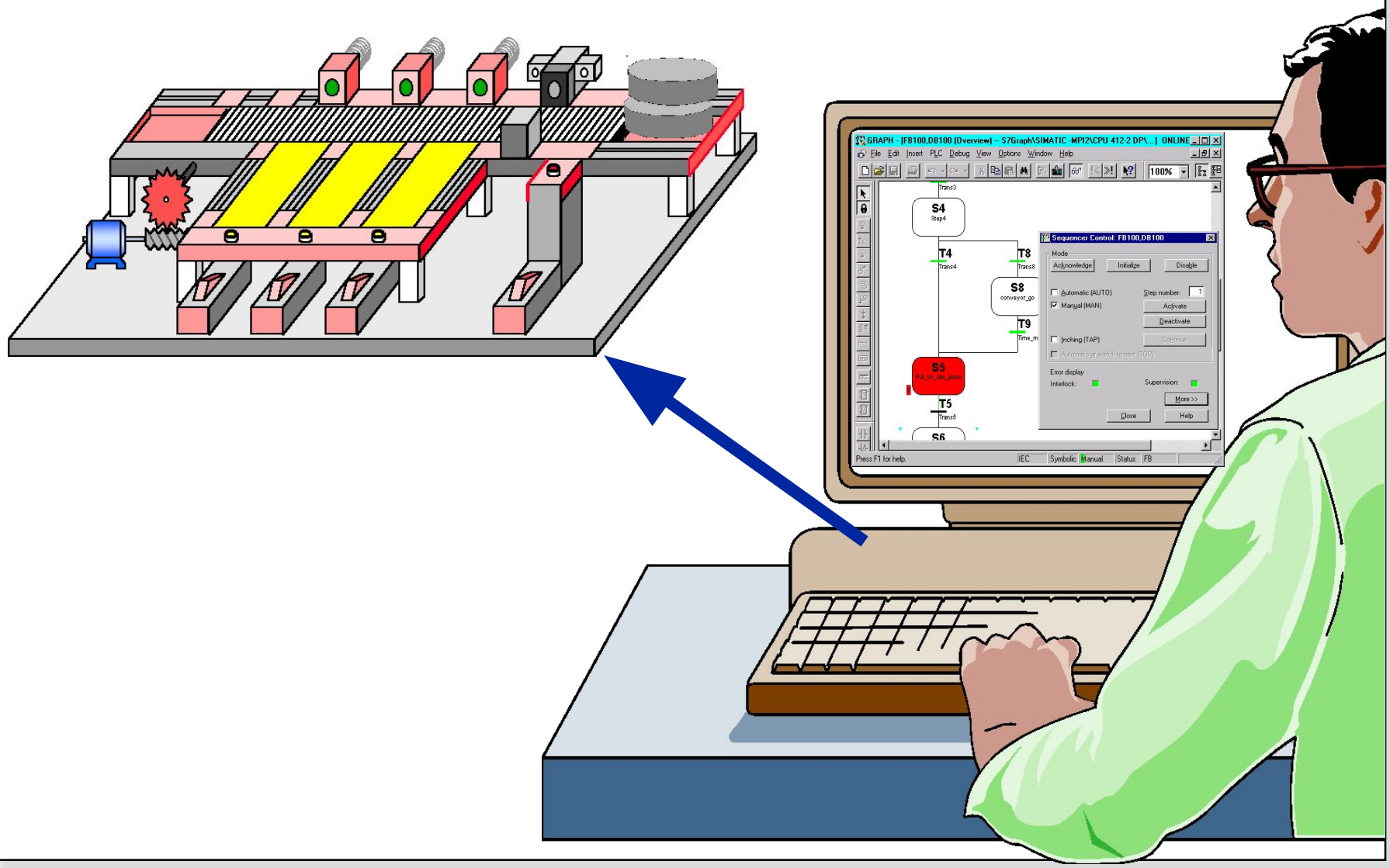
Синхронизация (1)



Синхронизация (2)



Упражнение (1): Запуск функции 'Control Sequencer'



Date: *
File: GRAPH_04e.23

Упражнение (2): Start-Up Using Self-Defined Parameter Set