**TABLE 1: The WIRE_LIST of this example**

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**About the WIRE_LIST:**
- The WIRE_LIST is a 2 column table that is provided by the designer to the software integration tool named: ECCM Integrator.
- The WIRE_LIST defines the connections between the output and input ports of all the SIMs that are used in the design of a certain system ("My-Project").
- The ECCM Integrator automatically integrates the code of all the SIMs that participate in "My-Project", resulting in the "final system code".
- The "final system code" is Loadable Assembler Language, that is ready to be Assembled and loaded directly into the CPU chip's memory (or into the CPU-chip's Simulator/Emulator).
- The only information that the designer needs to provide to the ECCM Integrator is the WIRE_LIST, and then click on the Integrate-Button (Button located inside the Active-Form of the ECCM Integrator tool).
- All the WIRE_LIST is contained in these 2 columns. The rest of the columns contain only tips.

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### FROM | TO
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S2A(OUT_1) | S11A(IN_2)

**DO** | **Tips About these WIREs**
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DO_1.1 | Module S2A_MAIN_INFINITE_LOOP ... short name S2A ...
| is activated by the chip's reset, and uses output port OUT_1
| to issues a one-time-call to activate the initialization port of
| module S11A_REAL_TIME_SCHEDULER.

DO_1.2 | Module S2A, using output port OUT_2
| that issues a one-time-call, activates the initialization port
| of module S5E_TIMER0_CLOCK_MODULE.
| As a result, module S5E issue periodic calls (named CLK_TIK)
| via OUT_2 (with a period defined by the user of ECCM).

DO_1.3 | Module S2A_MAIN_INFINITE_LOOP, using output port OUT_5
| that issues continuous calls (repeatedly) "asks" the scheduler
| module S11A_REAL_TIME_SCHEDULER: Is TIME-OUT?

DO_2 | TIMER0 in Module S5E, periodically sends a CLK_TIKs
| (via OUT_2) to the scheduler S11A. The CLK_TIC increments
| the 3 TIME-OUT-COUNTERS of the scheduler.
| The 3 TIME-OUT-VALUES are defined by the user of ECCM.
| See Note 2 below.

S11A(OUT_1) | S901A(IN_1)

DO_3.1 | Scheduler module S11A, repeatedly upon each TIME-OUT-1,
| Calls IN_1 of module S901A. See Note 1 below.

S11A(OUT_2) | S901A(IN_2)

DO_3.2 | Scheduler module S11A, repeatedly upon each TIME-OUT-2,
| Calls IN_2 of module S901A.

S11A(OUT_3) | S901A(IN_3)

DO_3.3 | Scheduler module S11A, repeatedly upon each TIME-OUT-3,
| Calls IN_3 of module S901A.

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**Note 1:** In this example we use module S901A as a place holder for future modules.

**Note 2:** Lego-Code also provides other scheduler modules with real-time software controllable TIME-OUT-VALUES.

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http://www.embedded-controller-code-maker.com/
http://www.game-blocks-code.com/