| Controllines / Microcode |   |          |                        |
|--------------------------|---|----------|------------------------|
|                          | 1 | 1        | Ctrl_REG_A             |
| ROM 0                    | 2 | 2        | Ctrl_REG_A             |
|                          | 4 | 3        | Ctrl_REG_A             |
|                          | 8 | 4        | Ctrl_REG_A             |
|                          | 1 | 5        | Ctrl_REG_L             |
|                          | 2 | 6        | Ctrl_REG_L             |
|                          | 4 | 7        | Ctrl_REG_L             |
|                          | 8 | 8        | Ctrl_REG_L             |
| ROM 1                    | 1 | 9        | Ctrl_16REG_A_addr      |
|                          | 2 | 10       | Ctrl_16REG_A_addr      |
|                          | 4 | 11       | Ctrl_16REG_A_addr      |
|                          | 8 | 12       | Ctrl_CREG_inc          |
|                          | 1 | 13       | Ctrl_CREG_inc          |
|                          | 2 | 14       | Ctrl_CREG_dec          |
|                          | 4 | 15       | Ctrl_CREG_dec          |
|                          | 8 | 16       | Ctrl_Flags             |
| ROM 2                    | 1 | 17       | Ctrl_GPR_A_ALU_R       |
|                          | 2 | 18       | Ctrl_GPR_A_ALU_R       |
|                          | 4 |          | Ctrl_GPR_A_ALU_R       |
|                          | 8 | 20       | Ctrl_GPR_A_ALU_L       |
|                          | 1 | 21       | Ctrl_GPR_A_ALU_L       |
|                          | 2 | 22       | Ctrl_GPR_A_ALU_L       |
|                          | 4 | 23       |                        |
|                          | 8 | 24       |                        |
| ROM 3                    | 1 | 25       | Ctrl_ALU_OP            |
|                          | 2 | 26       | Ctrl_ALU_OP            |
|                          | 4 | 27       | Ctrl_ALU_OP            |
|                          | 8 | 28       | Ctrl_ALU_OP            |
|                          | 1 | 29       |                        |
|                          | 2 | 30       | 0. 1.11.               |
|                          |   |          |                        |
|                          | 8 | 31<br>32 | Ctrl_hlt Ctrl rst Step |