**I2C Junior Computer Implementation**

**Ports**

SDTA $F682 PB6

SCLK $F680 PA0

**BIOS Interface**

BIOS Command in BDOS $1A

Input Y Bios I2C-CMD

A Byte or page $00 pointer for 2 Bytes to be transfered

Output C 1 = Error

A Result byte

Commands

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| $00 | I2C-CLR | Clear I2C bus | - | C=1 Error |
| $01 | I2C-Stop | Send stop condition | - | C=1 Error |
| $02 | I2C-Poll | Poll device | Dev adr | C=1 not active |
| $03 | I2C-ADEV | Send device adr 7 Bit for write | Dev adr | C=1 Error |
| $05 | I2C-R16 | Send register word | (Reg L/H) | C=1 NAK |
| $06 | I2C-RDEV | Send device adr 7 Bit for read | Dev adr | C=1 Error |
| $07 | I2C-WByte | Write byte to I2C bus | Byte | C=1 Error |
| $08 | I2C-RBYTE | Read byte from I2C bus | - | A=byte C=1 Error |
| $09 | I2C-RLB | Read last byte & I2C-NAK & I2C-Stop | - | A=byte C=1 Error |
| $0A | I2C-LOAD\_ID | Load ID from dev to addr | (dev,ID,ptr) | C=1 Error |
| $0B | I2C-G\_TIME | Get time from RTC (SS,MM,HH) | (ptr) | C=1 Error |
| $0C | I2C-G\_DATE | Get date From RTC (dy,DD,MM,YY) | (ptr) | C=1 Error |