

M68HC11 and X2402 Family

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0068 *****
0069 * READ A BYTE "RANDOM READ SEQUENCE". THE ADDRESS TO READ IS STORED *
0070 * IN ADDR. THE DATA FROM THE DUT IS STORED IN DATA. *
0071 *****
0072

0073 E023 BD E0 FE RDBYT: JSR START READ A BYTE FROM THE ADDRESS INDICATED
0074 E026 96 80 LDAA ADDR IN 'ADDR'
0075 E028 48 ASLA
0076 E029 8A A0 ORAA #A0 BUILD SLAVE ADDRESS
0077 E02B 36 PSHA
0078 E02C 97 82 STAA DATA
0079 E02E BD E0 9B JSR OUTBYT SEND SLAVE ADDRESS
0080 E031 BD E1 1A JSR NACK GET ACKNOWLEDGE
0081 E034 96 81 LDAA ADDR+1
0082 E036 97 82 STAA DATA
0083 E038 BD E0 9B JSR OUTBYT SEND WORD ADDRESS
0084 E03B BD E1 1A JSR NACK GET ACKNOWLEDGE
0085 E03E BD E0 FE JSR START SEND START COMMAND
0086 E041 32 PULA
0087 E042 8A 01 ORAA #01
0088 E044 97 82 STAA DATA
0089 E046 BD E0 9B JSR OUTBYT SEND SLAVE ADDRESS
0090 E049 BD E0 7D JSR INBYT READ DATA FROM 2404
0091 E04C BD E1 1A JSR NACK CLOCK WITHOUT ACKNOWLEDGE BY PROCESSOR
0092 E04F BD E0 F0 JSR STOP SEND STOP COMMAND
0093 E052 39 RTS
0094

0095 *****
0096 * WRITE A BYTE "BYTE WRITE SEQUENCE". THE ADDRESS TO WRITE IS STORED *
0097 * IN ADDR. THE DATA TO WRITE IS STORED IN DATA. *
0098 *****
0099

0100 E053 96 82 WRBYT: LDAA DATA WRITE TO BYTE POINTED TO BY ADDR THE
0101 E055 36 PSHA VALUE IN LOCATION 'DATA'
0102 E056 BD E0 FE JSR START SEND START COMMAND
0103 E059 96 80 LDAA ADDR
0104 E05B 48 ASLA
0105 E05C 8A A0 ORAA #A0
0106 E05E 97 82 STAA DATA
0107 E060 BD E0 9B JSR OUTBYT SEND SLAVE ADDRESS
0108 E063 BD E1 1A JSR NACK GET ACKNOWLEDGE
0109 E066 96 81 LDAA ADDR+1
0110 E068 97 82 STAA DATA
0111 E06A BD E0 9B JSR OUTBYT SEND WORD ADDRESS
0112 E06D BD E1 1A JSR NACK GET ACKNOWLEDGE
0113 E070 32 PULA
0114 E071 97 82 STAA DATA
0115 E073 BD E0 9B JSR OUTBYT SEND WRITE DATA
0116 E076 BD E1 1A JSR NACK GET ACKNOWLEDGE
0117 E079 BD E0 F0 JSR STOP SEND STOP
0118 E07C 39 RTS
0119

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