



Mailboxen für µ-controller und ISDN

LIT-074, DSK-407: INFO51.TXT

KEIL, 06089-460 62 86

Bei Problemen mit dem KEIL-Compiler sollten man erst einmal die aktuellen Versionen von der KEIL-Mailbox downloaden. Die letzten Versionen des Monitorprogramms für den Beitrag „Remote-Debugger“ wurden aus den Mailbox geladen. Ebenso die über PCN-DSK-407 beziehbare Datei INFO51.TXT, die Hinweise auf bekannte Fehler und Workarounds enthält.

8051 TOOLS:

```

=====
INFO51.TXT          3902 11.01.94 | News and bugs of 8051 Tools
C51V401.EXE        203911 11.01.94 | C51 Version 4.01
C51X406.EXE        205723 08.04.94 | C51 X-Version 4.06
L51X318.EXE        46359 08.04.94 | L51 X-Version 3.18
DS51V522.EXE      135938 14.02.94 | DS51 Version 5.22
TS51V522.EXE      131952 14.02.94 | TS51 Version 5.22
GETK51C1.C         1351 30.07.93 | 80C517 GETKEY Function for COM1
PUTC51C1.C         2139 30.07.93 | 80C517 PUTCHAR Function for COM1
RTXT_SRC.EXE      10943 13.12.93 | RTX51 tiny source code V1.05(self extracting)
RTX51SUP.EXE      21104 06.10.93 | extended configuration for RTX-51 V4.20
ALLOCS1.EXE       6221 11.01.94 | new source code of memory management
                    functions for C51 V4.0.
                    (init_mempool, malloc, calloc, realloc, free)
LIBRA51.EXE       149174 13.04.94 | new libraries for C51 containing updated
                    memory management functions and vsprintf.
MON51LIB.EXE      8612 11.01.94 | new Monitor-51 library V1.6
MON51IOT.EXE      22215 14.01.94 | new MON51.IOT driver V1.31 for TS51
M51V105.EXE       32892 11.01.94 | new MON51.EXE V1.05

```

80C166 TOOLS:

```

=====
INFO166.TXT        3192 21.01.94 | News and bugs of 80166 Tools
C166V201.EXE      190589 21.01.94 | C166.EXE Version 2.01
C166E201.EXE      317804 21.01.94 | C166E.EXE Version 2.01

```

```

L166V201.EXE      52267 21.01.94 | L166.EXE Version 2.01
L166E201.EXE      170924 21.01.94 | L166E.EXE Version 2.01
C166X207.EXE      192153 08.04.94 | C166.EXE X-Version 2.07
C166E207.EXE      309501 08.04.94 | C166E.EXE X-Version 2.07
L166X203.EXE      52214 03.03.94 | L166.EXE X-Version 2.03
L166E203.EXE      170904 03.03.94 | L166E.EXE X-Version 2.03
D166X208.EXE      148741 08.04.94 | DS166.EXE X-Version 2.08
D167X208.EXE      149104 08.04.94 | DS167.EXE X-Version 2.08
T166X208.EXE      125769 08.04.94 | TS166.EXE X-Version 2.08
ALLOCS166.EXE     6209 08.04.94 | new source code of memory management
                    functions for C166 V2.01.
                    (init_mempool, malloc, calloc, realloc, free)
REG167.H          14640 01.02.93 | new REG167.H for C166 V2.01
REG167.INC        11229 01.02.93 | new REG167.INC for A166 V2.01
MON166LI.EXE      9277 31.03.94 | new Monitor-166 library X1.6
M166V201.EXE      51683 04.02.94 | new MON166.EXE V2.01
M166IOT.EXE       34361 04.02.94 | new MON166.IOT V1.01
STARTUP.A66       9206 04.02.94 | STARTUP.A66 which avoids watchdog timeouts
START167.A66      10456 31.03.94 | START167.A66 which avoids watchdog timeouts

```

General Tools:

```

=====
COLSETUP.EXE      31429 08.11.93 | CoLoR configuration file (missing in C166PKD).
AMK.EXE           28112 29.11.93 | AMK.EXE Version 1.1
RAINPORT.EXE      31690 30.09.93 | Security Device Driver for Windows NT

```

SIEMENS, 06089-498 431

Interessenten an der Benutzung dieser Mailbox wird geraten, zuerst über PCN-LIT-074 das Registrierformular und die Benutzeranleitung zu bestellen und danach das Benutzerkennwort/Paßwort per Fax anzufordern. Für diese Ausgabe der **PC-NEWS_{edit}** wurde ein sehr nützlicher Assembler/Disassembler für 8051-Kode aus dieser Box geladen, das im Anschluß an die Dateienliste beschrieben ist. Sie erhalten es entweder als adis51.zip im Directory /public/mc8/tools oder als selbstextrahierendes Archiv als Datei 51adis.exe auf PCN-DSK-407. Ein DOK-File ist enthalten.

```

fae < DIR > 06-Aug-91 : siemens internal
temp < DIR > 16-Oct-91 : temporary files
comm < DIR > 19-Sep-91 : communication software
mc8 < DIR > 19-Sep-91 : 8 bit Mikrocontroller
mc16 < DIR > 19-Sep-91 : 16 bit Mikrocontroller 80C166
mp32 < DIR > 07-Jul-93 : 32 bit R3000/R3051/R4000
3exchg < DIR > 19-Aug-93 : 3rd-Party file exchange
toolnews < DIR > 12-Aug-93 : info about 3rd-party-tools and microcontr.
info < DIR > 19-Dec-91 : misc. siemens info

```

```

userman.exe 33889 28-Apr-93 : SIEMENS MAILBOX USER MANUAL 2.1 Postscript
allfiles.txt 12749 13-Apr-94 : all available mailbox files
m.tmp 96 24-Feb-94

```

Directory of /public/:

```

fae < DIR > 06-Aug-91 : siemens internal
temp < DIR > 16-Oct-91 : temporary files
comm < DIR > 19-Sep-91 : communication software
mc8 < DIR > 19-Sep-91 : 8 bit Mikrocontroller
mc16 < DIR > 19-Sep-91 : 16 bit Mikrocontroller 80C166
mp32 < DIR > 07-Jul-93 : 32 bit R3000/R3051/R4000
3exchg < DIR > 19-Aug-93 : 3rd-Party file exchange
toolnews < DIR > 12-Aug-93 : info about 3rd-party-tools and microcontr.
info < DIR > 19-Dec-91 : misc. siemens info

```

```

userman.exe 33889 28-Apr-93 : SIEMENS MAILBOX USER MANUAL 2.1 Postscript
allfiles.txt 12749 13-Apr-94 : all available mailbox files
m.tmp 96 24-Feb-94

```

Directory of /public/comm:

```

pkzip.exe 41462 09-Jul-93 : pkzip V2.04c
1ha211.exe 42624 05-May-91 : 1harc V2.11(un)compress (*.lzh)
pkzipfix.exe 7672 09-Jul-93 : pkzipfix V2.04c
procomm.zip 610003 24-Mar-91 : terminal program PROCOMM
tm211.zip 522623 28-Jan-91 : terminal program TELEMATE V2.11
dsz0404x.zip 40556 24-Jun-91 : external Z-Modem
dump.exe 8320 14-Nov-91 : hexdump program
1ha212.exe 39956 07-Oct-91 : 1harc V2.12c (un)compress (*.lzh)
modemdoc.com 43772 08-Apr-91 : modem test program (self extract)
pkunzip.exe 28806 09-Jul-93 : pkunzip V2.04c
zip2exe.exe 27069 09-Jul-93 : zip2exe V2.04c

```

Directory of /public/mc16:

```

tools < DIR > 19-Sep-91 : tools
applic < DIR > 19-Sep-91 : C166/C167/C165 application programs
3party < DIR > 19-Sep-91 : 3rd party support
apnote < DIR > 21-Jun-93 : C166/C167/C165 application notes
errata < DIR > 19-Sep-91 : errata sheets

```

Directory of /public/mc16/applic:

```

profilprg.exe 6393 05-Nov-91 : profibus applic. program (ascii)
profilart.exe 85065 05-Nov-91 : profibus article (postscript)
stackhnd.exe 14614 05-Nov-91 : stack underflow handler (ascii)
fcan_c.exe 18469 13-Oct-93 : Full-CAN appl (C-code), SAB C167C
flashw20.exe 369915 06-Apr-93 : Flash appl.V2.0 (incl. user int. source)
bcan_asm.exe 15419 13-Oct-93 : Basic-CAN appl (assembler), SAB C167C
bsload11.exe 62843 12-Apr-94 : Bootstrap Loader hex prog. Files, 166/165/
fcan_asm.exe 22376 13-Oct-93 : Full-CAN appl (assembler), SAB C167C
flashw40.exe 161027 13-Oct-93 : Flash appl.V4.0 for SAB 88C166, CA-Step
rs232emu.exe 31986 03-Aug-93 : RS232 emulation with PEC Transfer
cantest.exe 96479 15-Nov-93 : CAN Test Program / Environment SAB C167C

```

Directory of /public/mc16/apnote:

```

166bs1d.exe 93032 26-Nov-93 : SAB 80C166 detailed bootstrap loader apnote
bt1_2.ps 24967 14-Jun-93 : comparison of C165/C166/C167 bootstrap loader
bt1_2.doc 5522 26-Jan-93 : comparison of C165/C166/C167 bootstrap loader
bt1_1.ps 35571 06-Aug-93 : entry into the 166 bootstrap loader routine

```

```

167bs1d.exe 88517 31-Jan-94 : SAB C167/C165 detailed bootstrap loader appn

```

Directory of /public/mc16/errata:

```

166 < DIR > 27-Apr-92 : SAB 80C166 Errata Sheets
167c < DIR > 30-Mar-93 : SAB-C167C Errata Sheets (C167 with CAN)
167 < DIR > 27-Apr-92 : SAB-C167 Errata Sheets
166e < DIR > 27-Apr-92 : SAB 80C166E Bondout Errata Sheets
166w < DIR > 27-Apr-92 : SAB 80C166W Errata Sheets (without prescaler)
166s < DIR > 30-Mar-93 : SAB-C165 Errata Sheets
crossref < DIR > 05-May-93 : Errata Sheet Crossreference
166r < DIR > 15-Sep-93 : SAB-C167E Bondout Errata Sheets
167a < DIR > 01-Dec-92 : SAB-C167A Errata Sheets (C167 with ABUS)
166flash < DIR > 01-Dec-92 : SAB 88C166 Flash Errata Sheets
167cw < DIR > 15-Sep-93 : SAB-C167CW Errata Sheets (C167 with CAN, w/
err16.txt 2727 06-Apr-94 : Actual ES Status Report

```

Directory of /public/mc16/errata/166:

```

bb18.doc 30039 09-Jul-93
cb12.doc 26456 18-Jun-93
cbes11.doc 17831 21-Sep-92
cbes111.doc 20734 17-May-93
bb18.psc 137167 15-Jul-93
ca12.doc 27673 14-Dec-92
ca12.psc 108791 15-Dec-92
cb12.psc 117441 15-Jul-93
cbes111.psc 89244 17-May-93

```

Directory of /public/mc16/errata/166w:

```

cbwm12.psc 126171 15-Jul-93
cawes12.doc 24025 22-Sep-92
cbwm12.doc 28693 18-Jun-93

```

Directory of /public/mc16/errata/167:

```

esad11.doc 20239 09-Sep-93
eesaa12.doc 12563 22-May-92
esac13.doc 29531 17-Mar-93
ac12.doc 33660 08-Sep-93
ac12.psc 148417 14-Sep-93
esac13.psc 125212 13-Apr-93
esad11.psc 90194 14-Sep-93

```

Directory of /public/mc16/errata/165:

```

ba10.doc 11972 23-Feb-94
eesaa10.doc 9374 03-Feb-93
esaa10.doc 11455 08-Mar-93
aa12.doc 12983 08-Sep-93
aa12.psc 55663 14-Sep-93
eesaa10.psc 38761 03-Feb-93
esaa10.psc 46475 13-Apr-93

```

Directory of /public/mc16/errata/167c:

```

esad11c.doc 17668 09-Jul-93

```

Directory of /public/mc16/errata/167cw:

```

esad13cw.doc 18691 01-Dec-93
esad13cw.psc 82699 15-Dec-93
esae10cw.doc 19216 18-Jan-94
esae10cw.psc 84214 18-Jan-94

```

Directory of /public/mc16/errata/167a:

```

esac14a.doc 36423 09-Sep-93
eesab10a.doc 14646 22-May-92
eesaa11a.doc 13096 26-Mar-92
esac14a.psc 160267 14-Sep-93

```

Directory of /public/mc16/errata/166flash:

```

eslba12.psc 148646 13-Apr-93
esba13.doc 29684 12-Nov-92

```



escall.psc 143504 15-Jul-93
 eslbal2.doc 32118 10-Mar-93
 escall1.doc 32157 09-Jul-93

Directory of /public/mc16/tools:
 t166-v40.exe 63600 09-May-93 : timing calculation program 80C16x V4.0
 assem166.exe 71844 06-Apr-94 : HCR166 small assembler (16k), Hi11 Country
 adis166.zip 41227 07-Apr-93 : 80C166 disassembler with online assembler

Directory of /public/mc16/3party:
 tsystem < DIR > 10-Nov-93 166 Emulator SW
 pls < DIR > 23-Aug-93 Fastview Demo SW
 willert < DIR > 16-Dec-93 Willert Software Tools Newsletter
 kontron < DIR > 23-Aug-93 Emulator Demo SW
 tasking < DIR > 23-Aug-93 Crossview Demo SW
 hitex < DIR > 23-Aug-93 HITOP Demo SW
 ertec < DIR > 17-Aug-93 Ertec monitor prog. EVA166/EVA167/EVA165/EPC
 synatron < DIR > 17-Aug-93 Synatron Socket/Adapter 166/167/165 Overview

166-ps.exe 81314 03-Jan-94 166-3rd Party Tool List (Postscript,self ext
 166-xls.exe 74686 29-Mar-94 166-3rd Party Tool List: (EXCEL,self extr)

Directory of /public/mc16/3party/synatron:
 80c166-o.txt 2303 17-Aug-93

Directory of /public/mc16/3party/ertec:

asl6me.exe 23737 05-Nov-92
 e166a1.exe 198581 10-Aug-93
 e166me.exe 43989 25-Jun-93
 e305a1.exe 223980 16-Feb-93
 e305me.exe 62116 22-Oct-92
 ep66a1.exe 178776 17-Aug-93
 ep66me.exe 49149 17-Feb-93
 ev65a1.exe 175987 12-Aug-93
 ev65me.exe 55343 07-Jul-93
 ev66pe.exe 17639 21-Jul-92
 ev67a1.exe 178066 12-Aug-93
 ev67me.exe 57264 07-Jul-93
 io16x.exe 34005 28-Jul-93
 io16xm.exe 199437 02-Aug-93

Directory of /public/mc16/3party/hitex:
 hidemo.exe 421828 16-Jan-92 HITEX 80C166 Telemon Demo

Directory of /public/mc16/3party/tasking:
 xvvi66_d.lzh 106540 06-Dec-91 Tasking Demo, Cross View Debugger Interface

Directory of /public/mc16/3party/pls:
 fv_demo.exe 228778 22-Jul-92 fastview debugger demo
 fv66_inf.doc 5696 01-Sep-93 info fastview66/win (winword-doc)
 fastvz_wi.exe 661404 28-Oct-93 windows fastview debugger demo
 msys166.doc 5014 01-Sep-93 info microsysis166 (winword-doc)
 prd_k_lst.doc 7041 01-Sep-93 info product overview (winword-doc)
 ref_lst.doc 3463 01-Sep-93 info reference list (winword-doc)

Directory of /public/mc16/3party/kontron:
 kse5demo.zip 254281 24-Mar-92 Kontron KSE5 80C166 Emulator Demo-SW

Directory of /public/mc16/3party/willert:
 nl1193.doc 38282 07-Dec-93 Willert SW Tools Newsletter 11/93 (Winword)
 nl1193.ps 125399 07-Dec-93 Willert SW Tools Newsletter 11/93 (Postscript)

Directory of /public/mc8:
 tools < DIR > 19-Sep-91 : tools
 3party < DIR > 19-Sep-91 : 3rd party support
 errata < DIR > 19-Sep-91 : errata sheets

Directory of /public/mc8/errata:
 80c515a < DIR > 30-Mar-93
 80c517 < DIR > 30-Mar-93
 80c517a < DIR > 30-Mar-93
 c501 < DIR > 30-Mar-93
 c502 < DIR > 30-Mar-93
 c503 < DIR > 30-Mar-93
 80c515 < DIR > 05-Apr-93
 80515 < DIR > 11-Aug-93

err8.txt 2338 13-Apr-94

Directory of /public/mc8/errata/80515:
 bdr11.psc 33813 11-Aug-93
 bdr11.doc 7930 11-Aug-93
 esbfr10.doc 7868 24-Mar-94

esbfr10.psc 33519 24-Mar-94

Directory of /public/mc8/errata/80c515:
 car11.doc 8891 24-Mar-94
 cbr10.doc 8891 24-Mar-94
 dar12.doc 8373 24-Mar-94
 car11.psc 35627 24-Mar-94
 cbr10.psc 35591 24-Mar-94
 dar12.psc 35745 24-Mar-94

Directory of /public/mc8/errata/80c515a:
 bar23.doc 11088 05-Jan-94
 bar23.psc 48633 05-Jan-94
 adr31.doc 10522 05-Jan-94
 adr31.psc 46383 05-Jan-94
 esaer40.doc 8930 24-Mar-94
 esaer40.psc 40441 24-Mar-94

Directory of /public/mc8/errata/80c517:
 bbr81.doc 61440 23-Jul-93
 bcr12.doc 41827 24-Mar-94
 escar33.doc 10968 24-Mar-94
 bcr12.psc 81314 24-Mar-94
 bbr81.psc 87943 23-Jul-93
 escar33.psc 46921 24-Mar-94

Directory of /public/mc8/errata/80c517a:
 esber10.doc 9974 30-Mar-94
 esber10.psc 45997 30-Mar-94
 bdr31.doc 12084 05-Jan-94
 bdr31.psc 51671 05-Jan-94

Directory of /public/mc8/errata/c501:
 esbar12.doc 7301 28-Mar-94
 esabr31.doc 65593 20-Oct-93
 esbar12.psc 34530 28-Mar-94
 esabr31.psc 97336 20-Oct-93
 bar13.doc 7819 13-Apr-94
 bar13.psc 34253 13-Apr-94

Directory of /public/mc8/errata/c502:
 esacr20.doc 29063 05-Apr-93
 eesaar21.doc 12535 05-Apr-93
 eesaer40.doc 67217 05-Apr-93
 eesaer30.doc 29905 20-Jul-93
 esacr31.doc 29402 20-Jul-93
 eesaar21.psc 56647 20-Jul-93
 eesaer40.psc 103534 20-Jul-93
 esacr20.psc 75345 20-Jul-93
 esacr30.psc 76214 20-Jul-93
 esacr31.psc 75685 20-Jul-93

Directory of /public/mc8/errata/c503:
 esacr10.doc 10509 05-Apr-93
 abr60.doc 75923 05-Apr-93
 esaer10.doc 65121 20-Oct-93
 adr31.doc 66685 11-Aug-93
 abr60.psc 111550 20-Jul-93
 adr31.psc 97380 11-Aug-93
 esacr10.psc 50040 20-Jul-93
 esaer10.psc 97476 20-Oct-93
 esbar10.psc 39669 28-Mar-94
 esbar10.doc 8442 28-Mar-94

Directory of /public/mc8/tools:
 adis51.zip 34105 07-Apr-93 : 8051 disassembler with online assembler

Directory of /public/mc8/3party:
 5xx-ps.exe 82436 03-Jan-94 80C51/C500-3rd Party Tool List (Postscript,
 kscdemo.zip 306560 24-Mar-92 Kontron KSC Emulator (80515 etc.) Demo-SW
 5xx-xls.exe 76644 03-Jan-94 80C51/C500-3rd Party Tool List (EXCEL, self)

Directory of /public/toolnews:
 2_93.ps 101736 12-Aug-93 : develop. tools for the SAB-C165
 3_93.ps 98426 13-Aug-93 : MQFP production/test/burnin socket info

Directory of /public/info:
 tebis.exe 433446 19-Dec-91 : tebis data base

Directory of /public/mp32:
 3party < DIR > 07-Jul-93 : 3rd party support

Assembler/Disassembler ADIS51.EXE

Mit dem Programm ADIS51 können absolute HEX-, OBJ- und BIN-Dateien, welche für die Microcontroller der 8051 Familie generiert wurden, disassembliert werden. Zudem ist es möglich, die Daten solcher Dateien als Hex-Wert oder als Befehl über den eingebauten One-Line Assembler einfach zu modifizieren und sie als HEX- oder BIN-Datei wieder abzuspeichern. Der Inhalt

eines 64K Byte grossen Programmspeichers wird dazu im Assembler-Format oder als Hex-Dump dargestellt. Die Ausgabe des Programmspeicherinhalts in eine LOG-Datei

ist in einem List-Format oder Assembler-Source Format möglich. Der Disassembler unterstützt in Abhängigkeit des ausgewählten Microcontrollertyps dessen spezifischen SFR- und SFB-Symbole. Nach dem Laden einer Datei kann festgestellt werden, in welchen Programmspeicherbereich Code bzw. Daten geladen wurden.

Als Beispiel wurde im nachfolgenden Bildschirmbild die Datei UPR51.HEX (der Multiboot-Monitor) aus dem Beitrag *Remote-Debugger* geladen und im Disassembler-Mode dargestellt:

