

ACE196 provides a set of tools to evaluate and learn the 80C196KB architecture. ACE196 currently consists of four modules: Hypertext Manual, Design Module, Assembler Editor and On-Line Data Sheet.

It is recommended you try the ACE196 tutorial before trying to use ACE196. The tutorial gives you an overview of the ACE196 software. To run the ACE196 tutorial type:

```
>tutor
```

Installation requirements

ACE196 requires the following hardware configuration:

- PC AT(tm)/XT(tm) compatible
- EGA monitor
- 640K memory
- 1.2 Meg Floppy
- At least 3 Meg of Hard Disk Space

The ACE196 software may not run properly if any TSR's or drivers are loaded in the background (Including Mouse Drivers). The ACE196 software requires a minimum of at least 600K of free memory in order to run.

Installation Instructions

The ACE196 software may be loaded on any drive. However the ACE196 software must be loaded from the root directory. Type in:

```
cd \  
a:install
```

Insert the appropriate disks when requested.

To run the different ACE196 modules type one of the following.

ace196	Run ACE196 software
man196	Run stand-alone 80C196KB manual
asmman	Run stand-alone Assembler manual
ds196kb	Run on-line 80C196KB Data Sheet
tutor	Run ACE196 software tutorial
config	Configure Manual Colors and create contact name

ACE196 (V1.0) Functional Deviations

1. ACE196 software may hang if there is not enough executable memory. Remove any Terminal and Stay resident programs or drivers to ensure as much memory as possible is available. (Including Mouse Drivers.

2. Instruction timings for the following instructions are generated incorrectly:

			Generates	Should Be
MULU	(3-op)	AINC/EXT	20	19
MULU	(2-op)	AINC/EXT	20	19
MULUB	(3-op)	AINC/INT	12	13
MULUB	(3-op)	SHORT/EXT	15	16
MULUB	(2-op)	AINC/EXT	16	15
MULUB	(2-op)	SHORT/EXT	15	16
LDB		AINC/EXT	9	8
LDBSE		AINC/EXT	9	8

3. When specifying the stacksize for a module the code is generated incorrectly:

```
Generates:      test MODULE STACKSIZE10
Should Be:      test MODULE STACKSIZE(10)
```

Edit the file and add the parenthesis to fix the problem.

4. When programming the serial port baud rate, the ACE196 software will round up the value loaded into BAUDREG. You should verify the BAUDREG values by manually calculating the baud rate to verify the amount of baud rate error.

Three diskettes are provided:

Disk1 Contents

ACE196 Knowledge bases

80C196KB	KBM	DAD	KBM	DESIGN	KBM	DSAVE	KBM
CCR	KBM	REGS196	KBM	DHSI	KBM	DSER	KBM
DPWM	KBM	DHSOVAL	KBM	DHSOCHAN	KBM	FREQ	KBM
DINTER	KBM	CONFIG	KBM	DTIMERS	KBM	IOC1	KBM
QUERY	KBM	IOC0	KBM	IOC2	KBM	INT_MASK	KBM
INTMASK1	KBM	SPCON	KBM	HSOCOM	KBM	HSIMODE	KBM
ADCOM	KBM	CODE	KBM	PWMCON	KBM	DCCR	KBM
DWDT	KBM	RINTMSK1	KBM	DHSOSAVE	KBM	RINTMSK	KBM
RIOS0	KBM	RIOC1	KBM	RIOC2	KBM	RCCR	KBM
RSPCON	KBM	DATA	KBM	RHSIMODE	KBM	RHSOCOM	KBM
RADCOM	KBM	RIOS1	KBM	DINTSAVE	KBM	RIOS2	KBM
WSR	KBM	ACSPEC	KBM	RINTPND	KBM	RINTPND1	KBM
RHSISTAT	KBM	RSPSTAT	KBM	RWSR	KBM	DINST	KBM
DINST2	KBM	DINST3	KBM	DINST4	KBM	DINST5	KBM
DINST6	KBM	RIOC0	KBM	FNAME	KBM	ITIME	KBM
DASM	KBM						

Hypertext manuals

INST	PRE	HELP	PRE	ASMMAN	PRE	FUSMAN	PRE
THREAD	HLP						

Utilities

BUILD	EXE	DELETE	EXE	REPORT	EXE	FIND	EXE
PIC	EXE	IEDIT	EXE	RPTGEN	EXE	THREAD	EXE
FRUN	EXE						

Report generators

SAVE	REP	SPEC	REP	SAVEEVAL	REP	SCORE	REP
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ACE196 configuration file

ACE196 CFG

Reset initialization

DEFAULT

Batch files

ACE196	BAT	ASMMAN	BAT	MAN196	BAT	DS196KB	BAT
CONFIG	BAT	README	BAT	TUTOR	BAT	INSTALL	BAT
LOAD	BAT	DS196	BAT				

Print version of readme file

README DOC

Assembler include file

80C196 INC

Data base files

FLDTHR DBF INST DBF

Disk2 Contents

Manuals

MANUAL PRE DS196KB PRE

Pictures

196KB	PIC	ACTUAL	PIC	ADCONV	PIC	ADINPUT	PIC
ADSAMPL	PIC	AUTOCCB	PIC	AUTOPROG	PIC	C196AD	PIC
CLKPHASE	PIC	DAXBUF	PIC	HSI	PIC	HSO	PIC
ICCIDLE	PIC	IDEAL	PIC	INPUT	PIC	INTMEM	PIC
INTSRC	PIC						

Disk3 Contents

INTSTRUC	PIC	IOEXP	PIC	IORECON	PIC	MEMCON	PIC
LCC196	PIC	MINHW	PIC	MEMMAP	PIC	OUTPUT	PIC
P34_AD	PIC	PGA196	PIC	PLCC196	PIC	POWERUP	PIC
QBD	PIC	RALU	PIC	RESMAP	PIC	RSTPIN	PIC
RSTSEQ	PIC	SFRWIN0	PIC	SFRWIN14	PIC	SFRWIN15	PIC
SYSRST	PIC	TIMERS	PIC	WRLWRH	PIC	XCLK	PIC

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