

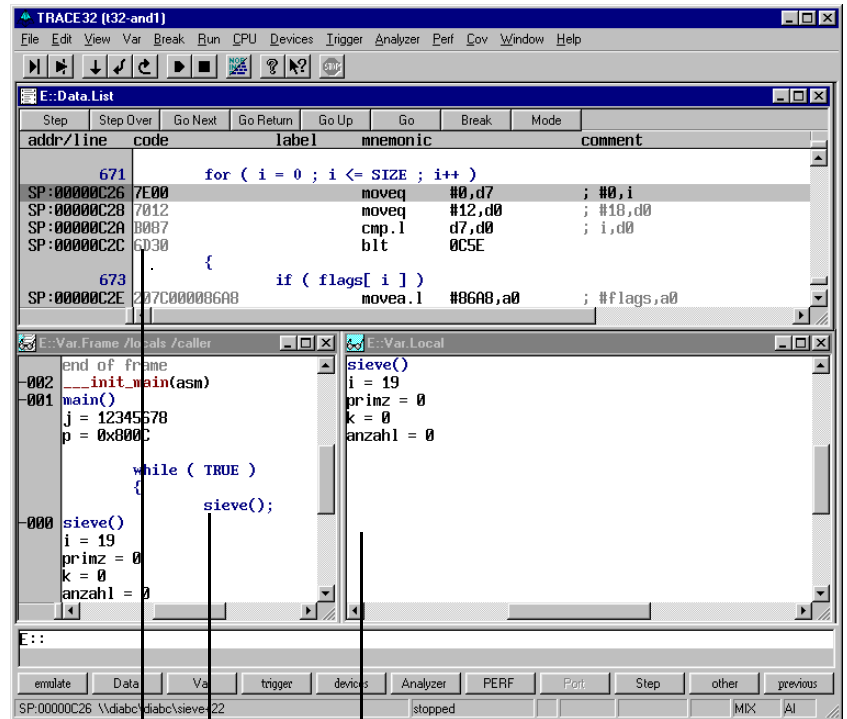
ROM Monitor

- Compatible with Emulator
- Support for C,C++ and ASM
- Communication via Eprom Simulator
- Communication via RS232 or customized .DLL link
- Windows9x, WindowsNT and Unix
- Monitor Code with Source
- Monitor Code Royalty Free

ROM monitors usually run with the EPROM simulator. Some versions are available for RS232 operation or together with evaluation boards from other 3rd party manufacturers. The communication can also be done by a customer supplied .DLL file. This allows to use any other (proprietary) communication protocol or hardware for debugging.

Software Concept

Symbolic Debugging

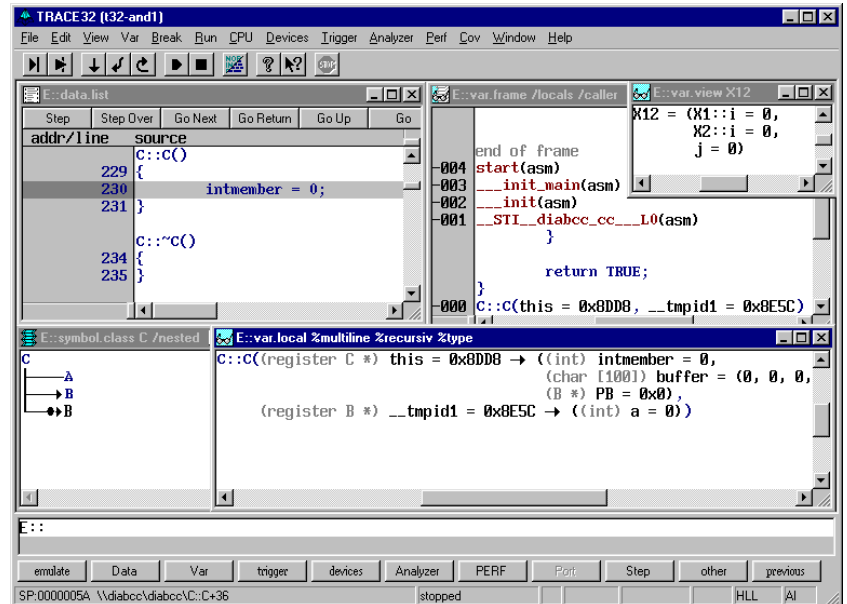


Local variables of the current function
 Stack frame to display function nesting
 Source listing in mixed mode

A hierarchical symbol database enables structured symbolic debugging. Symbol names can be up to 255 significant characters long and can be used to show single program addresses, module names

and memory classes. The disassembler can use the symbols for labels and/or operands. Demangling for C++ signatures is supported.

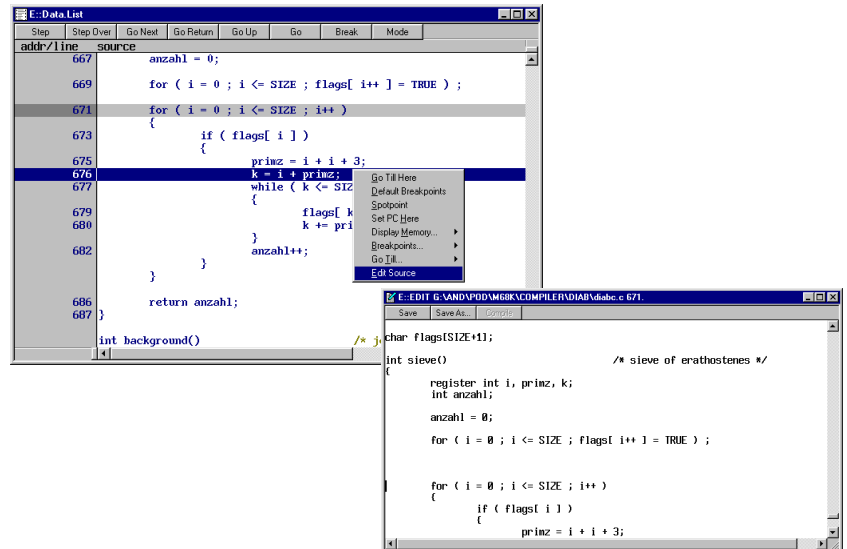
High-Level Language Debugging



TRACE32 can directly load the output of all standard compilers for C, C++, Pascal, Modula2, PEARL and ADA from most compiler vendors. Program display and debugging can be done in assembler, high-level or in a mixture of both. It is

possible to construct both assembler and high-level windows on the screen simultaneously. All variable types specific to the high-level language can be displayed and modified. Addresses can be absolute, relative or line number based.

Edit/Debug Link



The editor window can be synchronised to the debugging window so that when an error is found, the source text can immediately be shown and if required, edited.

On-Screen Assembler

The on-screen assembler is provided in addition to the more common inline assembler found on other systems. With the on-screen assembler, short programs can be

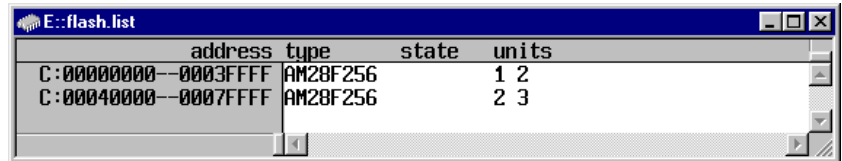
written quickly and reliably. It is not a full assembler whose output code is linkable to the main program in the usual way .

Multi-Step Operation

A step mode is provided in which the emulator simply steps the CPU instruction by instruction as fast as it can. In this mode, operating speed of the target is reduced by a

factor of approximately 100, but all register values are available at each step.

Flash Programming



address	type	state	units
C:00000000--0003FFFF	AM28F256		1 2
C:00040000--0007FFFF	AM28F256		2 3

TRACE32 support the programming of external flash memory as well as the programming of internal flash memory of microcontrollers.

The programming can be controlled by the emulator or by a routine in the target system.

Supported Processors

386DX	AD6522	ARM740T	AT91SAM3SD8C	ATSAM4S8C	ATSAME70Q19	CC2538F128	CY8C4128FNI-
386EX	AD6526	ARM7DI	AT91SAM3U1C	ATSAM4SA16B	ATSAME70Q20	CC2538F256	BL573
386SX	AD6528	ARM7EJ-S	AT91SAM3U1E	ATSAM4SA16C	ATSAME70Q21	CC2538F512	CY8C4128FNI-
486	AD6529	ARM7TDMI	AT91SAM3U2C	ATSAM4SD16B	ATSAMG51	CC2630F128	BL583
66AK2E02	AD6532	ARM7TDMI-S	AT91SAM3U2E	ATSAM4SD16C	ATSAMG53	CC2640F128	CY8C4128FNI-
66AK2E05	ADSP-CM402F	ARM915T	AT91SAM3U4C	ATSAM4SD32B	ATSAMG55	CC2650F128	BL593
66AK2H06	ADSP-CM403F	ARM920T	AT91SAM3U4E	ATSAM4SD32C	ATSAMR21E16A	CDC3207G	CY8C4128LQI-
66AK2H12	ADSP-CM407F	ARM922T	AT91SAM3X4C	ATSAMA5D21	ATSAMR21E17A	CDC3272G	BL443
66AK2H14	ADSP-CM408F	ARM926EJ-S	AT91SAM3X4E	ATSAMA5D22	ATSAMR21E18A	CDC32XXG	CY8C4128LQI-
8051XAG1	ADUC7020	ARM940T	AT91SAM3X8C	ATSAMA5D23	ATSAMR21G16A	CDMAX	BL453
8051XAG2	ADUC7021	ARM946E-S	AT91SAM3X8E	ATSAMA5D24	ATSAMR21G17A	CEA32XXA	CY8C4128LQI-
8051XAG3	ADUC7022	ARM966E-S	AT91SAM7A1	ATSAMA5D26	ATSAMR21G18A	CL-PS7110	BL473
8086	ADUC7023	ARM968E-S	AT91SAM7A2	ATSAMA5D27	ATSAMS70J19	CL-PS7111	CY8C4128LQI-
8088	ADUC7024	ARM9E-S	AT91SAM7A3	ATSAMA5D28	ATSAMS70J20	CL-PS7500FE	BL483
80C186EA	ADUC7025	ARM9EJ-S	AT91SAM7L128	ATSAMA5D31	ATSAMS70J21	CL-SH8665	CY8C4128LQI-
80C186EB	ADUC7026	ARM9TDMI	AT91SAM7L64	ATSAMA5D33	ATSAMS70N19	CL-SH8668	BL493
80C186EC	ADUC7027	ARRIA10SOC	AT91SAM7S128	ATSAMA5D34	ATSAMS70N20	CLARITY	CY8C4128LQI-
80C186XL	ADUC7028	ARRIAVSO	AT91SAM7S256	ATSAMA5D35	ATSAMS70N21	EN9414	BL543
80C188EA	ADUC7029	AT75C220	AT91SAM7S32	ATSAMA5D36	ATSAMS70Q19	CORTEX-A15	CY8C4128LQI-
80C188EB	ADUC7030	AT75C310	AT91SAM7S321	ATSAMA5D41	ATSAMS70Q20	CORTEX-A17	BL553
80C188EC	ADUC7032	AT75C320	AT91SAM7S512	ATSAMA5D42	ATSAMS70Q21	CORTEX-A5	CY8C4128LQI-
80C188XL	ADUC7033	AT76C501	AT91SAM7S64	ATSAMA5D43	ATSAMV70J19	CORTEX-A7	BL563
88AP128	ADUC7034	AT76C502	AT91SAM7SE256	ATSAMA5D44	ATSAMV70J20	CORTEX-A8	CY8C4128LQI-
88AP162	ADUC7036	AT76C502A	AT91SAM7SE32	ATSAMC20E15A	ATSAMV70N19	CORTEX-A9	BL573
88AP166	ADUC7039	AT76C503	AT91SAM7SE512	ATSAMC20E16A	ATSAMV70N20	CORTEX-M0	CY8C4128LQI-
88AP168	ADUC7060	AT76C503A	AT91SAM7X128	ATSAMC20E17A	ATSAMV70Q19	CORTEX-M0+	BL583
88E6208	ADUC7061	AT76C510	AT91SAM7X256	ATSAMC20E18A	ATSAMV70Q20	CORTEX-M1	CY8C4128LQI-
88E6218	ADUC7121	AT76C551	AT91SAM7X512	ATSAMC20G15A	ATSAMV71J19	CORTEX-M23	BL593
88F5082	ADUC7122	AT76C901	AT91SAM7XC128	ATSAMC20G16A	ATSAMV71J20	CORTEX-M3	CY8C4246AZI-L423
88F5180N	ADUC7124	AT78C1501	AT91SAM7XC256	ATSAMC20G17A	ATSAMV71J21	CORTEX-M33	CY8C4246AZI-L433
88F5181	ADUC7128	AT91CAP7E	AT91SAM7XC512	ATSAMC20G18A	ATSAMV71N19	CORTEX-M33F	CY8C4246AZI-L435
88F5182	ADUC7129	AT91CAP7S250A	AT91SAM9260	ATSAMC20G18A	ATSAMV71N20	CORTEX-M4	CY8C4246AZI-L445
88F5281	ADUC7229	AT91CAP7S450A	AT91SAM9261	ATSAMC20J16A	ATSAMV71N21	CORTEX-M7	CY8C4246LTI-L445
88F6082	ADUCM301	AT91CAP9E	AT91SAM9263	ATSAMC20J17A	ATSAMV71Q19	CORTEX-R4	CY8C4247AZI-L423
88F6180	ADUCM330	AT91CAP9EC	AT91SAM9G10	ATSAMC20J18A	ATSAMV71Q20	CORTEX-R4F	CY8C4247AZI-L433
88F6183	ADUCM331	AT91CAP9S250A	AT91SAM9G20	ATSAMC21E15A	ATSAMV71Q21	CORTEX-R5	CY8C4247AZI-L445
88F6183L	ADUCM360	AT91CAP9S500A	AT91SAM9G45	ATSAMC21E16A	AXM5516	CORTEX-R5F	CY8C4247AZI-L475
88F6190	ADUCM361	AT91CAP9SC250A	AT91SAM9M10	ATSAMC21E17A	BC6911	CORTEX-R7	CY8C4247AZI-L485
88F6192	AM1707	AT91CAP9SC500A	AT91SAM9R64	ATSAMC21E18A	BCM2835	CORTEX-R7F	CY8C4247BZI-L479
88F6280	AM1808	AT91F40416	AT91SAM9RL64	ATSAMC21G15A	BCM2836	CORTEX-R8	CY8C4247BZI-L489
88F6281	AM1810	AT91F40816	AT91SAM9XE128	ATSAMC21G16A	BCM4708	CORTEX-R8F	CY8C4247FNI-
88F6282	AM186CC	AT91FR40162	AT91SAM9XE256	ATSAMC21G17A	BCM47081	CS22210	BL483
88F6283	AM186CH	AT91FR4042	AT91SAM9XE512	ATSAMC21G18A	BERYLLIUM	CS22220	CY8C4247FNI-
88F6321	AM186CU	AT91FR4081	AT91SC321RC	ATSAMC21J15A	BU7611AKU	CS22230	BL493
88F6322	AM186ED	AT91M40100	ATSAM4C16C	ATSAMC21J16A	C161..167	CS22250	CY8C4247LQI-
88F6323	AM186EM	AT91M40400	ATSAM4C8C	ATSAMC21J17A	C161CI	CS22270	BL453
88F6601	AM186EMLV	AT91M40403	ATSAM4CMP16C	ATSAMC21J18A	C161CS	CS7522	CY8C4247LQI-
88F6707	AM186ES	AT91M40800	ATSAM4CMP8C	ATSAMD10C13A	C161JI	CS7542	BL463
88F6710	AM186ESL	AT91M40807	ATSAM4CMS16C	ATSAMD10C14A	C161K	CS89712	CY8C4247LQI-
88F6810	AM186EM	AT91M42800A	ATSAM4CMS8C	ATSAMD10D13A	C161O	CSM5000	BL473
88F6820	AM188EMLV	AT91M43300	ATSAM4E16C	ATSAMD10D14A	C161PI	CSM5200	CY8C4247LQI-
88F6828	AM188ER	AT91M55800A	ATSAM4E16E	ATSAMD11C13A	C161RI	CX22490	BL483
88F6W11	AM188ES	AT91M63200	ATSAM4E8C	ATSAMD11C14A	C161S	CX22491	CY8C4247LQI-
88FR101	AM188ESLV	AT91R40008	ATSAM4E8E	ATSAMD11D13A	C161SI	CX22492	BL493
88FR102	AM3352	AT91R40807	ATSAM4LC2A	ATSAMD11D14A	C161U	CX22496	CY8C4247LTI-L445
88FR111	AM3354	AT91RM9200	ATSAM4LC2B	ATSAMD20E15	C161V	CX81210	CY8C4247LTI-L475
88FR131	AM3356	AT91SAM3A4C	ATSAM4LC2C	ATSAMD20E16	C161XX	CX81400	CY8C4247LTI-L485
88FR301	AM3357	AT91SAM3A8C	ATSAM4LC4B	ATSAMD20E17	C163	CX82100	CY8C4248AZI-L475
88FR321	AM3358	AT91SAM3N00A	ATSAM4LC4C	ATSAMD20G14	C163-16F	C163-16F	CY8C4248AZI-L485
88FR331	AM3359	AT91SAM3N00B	ATSAM4LC8A	ATSAMD20G15	C163-24D	C163-24D	CY8C4248BZI-L479
88FR521	AM3505	AT91SAM3N0A	ATSAM4LC8B	ATSAMD20G16	C164CH	CY8C4127FNI-	BL483
88FR531	AM3517	AT91SAM3N0B	ATSAM4LC8C	ATSAMD20G17	C164CI	BL493	CY8C4248FNI-
88FR571	AM3703	AT91SAM3N0C	ATSAM4LS2A	ATSAMD20G18	C164CL	CY8C4127LQI-	BL483
88I6745	AM3715	AT91SAM3N1A	ATSAM4LS2B	ATSAMD20G18	C164CM	BL453	CY8C4248FNI-
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8XC196EN	AM3892	AT91SAM3N2A	ATSAM4LS4C	ATSAMD20J16	C165	CY8C4127LQI-	BL453
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8XC196KC	AM4376	AT91SAM3N2C	ATSAM4LS8A	ATSAMD20J18	C165U	CY8C4127LQI-	BL463
8XC196KD	AM4377	AT91SAM3N2D	ATSAM4LS8B	ATSAMD21E15A	C165U	BL493	CY8C4248FNI-
90CE198	AM4378	AT91SAM3N4B	ATSAM4N16C	ATSAMD21E16A	C166CBC	C167	CY8C4128FNI-
90CL301	AM4379	AT91SAM3N4C	ATSAM4N8A	ATSAMD21E17A	C167C	BL443	CY8C4248FNI-
90CL302	AM571X	AT91SAM3S1A	ATSAM4N8B	ATSAMD21E18A	C167CR	CY8C4128FNI-	BL483
90CL303	AM572X	AT91SAM3S1B	ATSAM4N8C	ATSAMD21G15A	C167CS	BL453	CY8C4248FNI-
93C100	AM5K2E02	AT91SAM3S1C	ATSAM4S16A	ATSAMD21G16A	C167CW	CY8C4128FNI-	BL493
93C101	AM5K2E04	AT91SAM3S1D	ATSAM4S16B	ATSAMD21G17A	C167SR	BL473	CY8C4248FNI-
93C110	ARM1136J-S	AT91SAM3S2A	ATSAM4S16C	ATSAMD21G18A	CBC32XXA	CY8C4128FNI-	BL543
A20	ARM1136JF-S	AT91SAM3S2B	ATSAM4S2A	ATSAMD21J15A	CC2530F128	CC2530F128	CY8C4248FNI-
A2F060	ARM1156T2-S	AT91SAM3S2C	ATSAM4S2B	ATSAMD21J16A	CC2530F256	CC2530F256	BL553
A2F200	ARM1156T2F-S	AT91SAM3S4A	ATSAM4S2C	ATSAMD21J17A	CC2530F32	CC2530F32	CY8C4248FNI-
A2F500	ARM1176JZ-S	AT91SAM3S4B	ATSAM4S4A	ATSAMD21J18A	CC2530F64	CC2530F64	BL563
A9500	ARM1176JZF-S	AT91SAM3S4C	ATSAM4S4B	ATSAME70J20	CC2531F128	CC2531F128	CY8C4248FNI-
A9540	ARM11MPCORE	AT91SAM3S8B	ATSAM4S4C	ATSAME70J21	CC2531F256	CC2531F256	BL573
AAEC-2000	ARM720T	AT91SAM3S8C	ATSAM4S8A	ATSAME70N19	CC2533F32	CC2533F32	CY8C4248FNI-
		AT91SAM3SD8B	ATSAM4S8B	ATSAME70N20	CC2533F64	CC2533F64	BL583
				ATSAME70N21	CC2533F96	CC2533F96	CY8C4248FNI-

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Module Description

Detailed Order Information

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