

Mode: All

Left file: C:\Users\scart\Desktop\test_1280.asm Right file: C:\Users\scart\Desktop\test_2560.asm

<pre> .FILE C:\PROJEKTY\AVR\AVRco\TEST_XX\test ; Compiled by E-LAB AVRco PASCAL Compiler Re ; Version : Demo ; ; Licenced to : Demo Version ; ; (c), Grombacherstr. 27 e-mail info@e-lab. ; D-74906 Bad Rappenau Tel. 07268/9124-0 Fa ; ++++++ ; Source File : test.PAS ; Compiled : 05. listopad 2016 19:50:08 <> ; ++++++ </pre>	<pre> = <> = </pre>	<pre> .FILE C:\PROJEKTY\AVR\AVRco\TEST_XX\test ; Compiled by E-LAB AVRco PASCAL Compiler Re ; Version : Demo ; ; Licenced to : Demo Version ; ; (c), Grombacherstr. 27 e-mail info@e-lab. ; D-74906 Bad Rappenau Tel. 07268/9124-0 Fa ; ++++++ ; Source File : test.PAS ; Compiled : 05. listopad 2016 19:50:54 ; ++++++ </pre>
<pre> .MEDIUM .ROMEND 1FFFFh; </pre>	<pre> <> </pre>	<pre> .LARGE .ROMEND 3FFFFh; </pre>
<pre> .EEPROMEND 00FFFFh; ; ++++++ ; Constants and Variables definition ; ++++++ ; === Internal used memory and constants === FALSE .EQU 000h ; const TRUE .EQU 0FFh ; const NIL .EQU 000h ; const PI .EQU 000h ; const COMPILERREV .EQU 1FDh ; const COMPILERBUILD_Y .EQU 010h ; const COMPILERBUILD_M .EQU 00Ah ; const COMPILERBUILD_D .EQU 017h ; const COMPILEYEAR .EQU 010h ; const COMPILEMONTH .EQU 00Bh ; const </pre>	<pre> = </pre>	<pre> .EEPROMEND 00FFFFh; ; ++++++ ; Constants and Variables definition ; ++++++ ; === Internal used memory and constants === FALSE .EQU 000h ; const TRUE .EQU 0FFh ; const NIL .EQU 000h ; const PI .EQU 000h ; const COMPILERREV .EQU 1FDh ; const COMPILERBUILD_Y .EQU 010h ; const COMPILERBUILD_M .EQU 00Ah ; const COMPILERBUILD_D .EQU 017h ; const COMPILEYEAR .EQU 010h ; const COMPILEMONTH .EQU 00Bh ; const </pre>

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COMPILEDAY	.EQU	005h	; const		COMPILEDAY	.EQU	005h	; const	
COMPILEHOUR	.EQU	013h	; const		COMPILEHOUR	.EQU	013h	; const	
COMPILEMINUTE	.EQU	032h	; const		COMPILEMINUTE	.EQU	032h	; const	
PROJECTBUILD	.EQU	03Fh	; const	<>	PROJECTBUILD	.EQU	040h	; const	
OPTIMISERREV	.EQU	0304h	; const	=	OPTIMISERREV	.EQU	0304h	; const	
OPTIMISERBUILD	.EQU	0201h	; const		OPTIMISERBUILD	.EQU	0201h	; const	
INTFLAG	.EQU	007h	; const		INTFLAG	.EQU	007h	; const	
_EEPROM	.EQU	006h	; const		_EEPROM	.EQU	006h	; const	
_SIGN	.EQU	005h	; const		_SIGN	.EQU	005h	; const	
_WAITLCD	.EQU	004h	; const		_WAITLCD	.EQU	004h	; const	
_STRCONST	.EQU	004h	; const		_STRCONST	.EQU	004h	; const	
_DEVICE	.EQU	003h	; const		_DEVICE	.EQU	003h	; const	
_NEGATIVE	.EQU	002h	; const		_NEGATIVE	.EQU	002h	; const	
_ERRFLAG	.EQU	001h	; const		_ERRFLAG	.EQU	001h	; const	
_I2C2BYTE	.EQU	000h	; const		_I2C2BYTE	.EQU	000h	; const	
_TOGGLE300	.EQU	000h	; const		_TOGGLE300	.EQU	000h	; const	
_LCDLOWER	.EQU	001h	; const		_LCDLOWER	.EQU	001h	; const	
_DSP7RFR	.EQU	002h	; const		_DSP7RFR	.EQU	002h	; const	
_PWRSVFLG	.EQU	003h	; const		_PWRSVFLG	.EQU	003h	; const	
_F64StrInt	.EQU	004h	; const		_F64StrInt	.EQU	004h	; const	
_F64StrFrac	.EQU	005h	; const		_F64StrFrac	.EQU	005h	; const	
_FREQCNTFLAG	.EQU	006h	; const		_FREQCNTFLAG	.EQU	006h	; const	
_AUTOACK	.EQU	007h	; const		_AUTOACK	.EQU	007h	; const	
_ACCGLO	.EQU	000h	; var Data	byte	_ACCGLO	.EQU	000h	; var Data	byte
_ACCGHI	.EQU	001h	; var Data	byte	_ACCGHI	.EQU	001h	; var Data	byte
_ACCB	.EQU	010h	; var Data	byte	_ACCB	.EQU	010h	; var Data	byte
_ACCA	.EQU	011h	; var Data	byte	_ACCA	.EQU	011h	; var Data	byte
_ACCALO	.EQU	012h	; var Data	byte	_ACCALO	.EQU	012h	; var Data	byte
_ACCAHI	.EQU	013h	; var Data	byte	_ACCAHI	.EQU	013h	; var Data	byte
_ACCDLO	.EQU	014h	; var Data	byte	_ACCDLO	.EQU	014h	; var Data	byte
_ACCDHI	.EQU	015h	; var Data	byte	_ACCDHI	.EQU	015h	; var Data	byte
_ACCELO	.EQU	016h	; var Data	byte	_ACCELO	.EQU	016h	; var Data	byte
_ACCEHI	.EQU	017h	; var Data	byte	_ACCEHI	.EQU	017h	; var Data	byte
_ACCFLO	.EQU	018h	; var Data	byte	_ACCFLO	.EQU	018h	; var Data	byte
_ACCFHI	.EQU	019h	; var Data	byte	_ACCFHI	.EQU	019h	; var Data	byte
_ACCBLO	.EQU	01Ah	; var Data	byte	_ACCBLO	.EQU	01Ah	; var Data	byte
_ACCBHI	.EQU	01Bh	; var Data	byte	_ACCBHI	.EQU	01Bh	; var Data	byte
_FRAMEPTR	.EQU	01Ch	; var Data	byte	_FRAMEPTR	.EQU	01Ch	; var Data	byte

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_FPTRHI	.EQU	01Dh	; var Data	byte	<>	_FPTRHI	.EQU	01Dh	; var Data	byte
_ACCLO	.EQU	01Eh	; var Data	byte		_ACCLO	.EQU	01Eh	; var Data	byte
_ACCCHI	.EQU	01Fh	; var Data	byte		_ACCCHI	.EQU	01Fh	; var Data	byte
\$_SAVERET	.EQU	002h	; var Data	byte		\$_SAVERET	.EQU	002h	; var Data	byte
\$_SAVERET1	.EQU	003h	; var Data	byte		\$_SAVERET1	.EQU	003h	; var Data	byte
					<>	\$_SAVERET2	.EQU	004h	; var Data	byte
FLAGS	.EQU	004h	; var Data	byte		FLAGS	.EQU	005h	; var Data	byte
FLAGS2	.EQU	005h	; var Data	byte		FLAGS2	.EQU	006h	; var Data	byte
_SYSTFLAGS	.EQU	006h	; var Data	byte		_SYSTFLAGS	.EQU	007h	; var Data	byte
SYSTICK	.EQU	00Ah	; const		=	SYSTICK	.EQU	00Ah	; const	
PROCCLOCK	.EQU	0F42400h	; const			PROCCLOCK	.EQU	0F42400h	; const	
DECIMALSEP	.EQU	02Eh	; const			DECIMALSEP	.EQU	02Eh	; const	
CPU_ID	.EQU	1E9703h	; const		<>	CPU_ID	.EQU	1E9801h	; const	
Flash_Page_Size	.EQU	100h	; const		=	Flash_Page_Size	.EQU	100h	; const	
ROMconstPage	.EQU	0FFFFFFFFFFFFFFFh	; const			ROMconstPage	.EQU	0FFFFFFFFFFFFFFFh	; const	
STACKSIZE	.EQU	0FFh	; const			STACKSIZE	.EQU	0FFh	; const	
FRAMESIZE	.EQU	0FFh	; const			FRAMESIZE	.EQU	0FFh	; const	
UDR3	.EQU	136h	; var iData	byte		UDR3	.EQU	136h	; var iData	byte
UBRR3H	.EQU	135h	; var iData	byte		UBRR3H	.EQU	135h	; var iData	byte
UBRR3L	.EQU	134h	; var iData	byte		UBRR3L	.EQU	134h	; var iData	byte
UCSR3C	.EQU	132h	; var iData	byte		UCSR3C	.EQU	132h	; var iData	byte
UCSR3B	.EQU	131h	; var iData	byte		UCSR3B	.EQU	131h	; var iData	byte
UCSR3A	.EQU	130h	; var iData	byte		UCSR3A	.EQU	130h	; var iData	byte
OCR5CH	.EQU	12Dh	; var iData	byte		OCR5CH	.EQU	12Dh	; var iData	byte
OCR5CL	.EQU	12Ch	; var iData	byte		OCR5CL	.EQU	12Ch	; var iData	byte
OCR5BH	.EQU	12Bh	; var iData	byte		OCR5BH	.EQU	12Bh	; var iData	byte
OCR5BL	.EQU	12Ah	; var iData	byte		OCR5BL	.EQU	12Ah	; var iData	byte
OCR5AH	.EQU	129h	; var iData	byte		OCR5AH	.EQU	129h	; var iData	byte
OCR5AL	.EQU	128h	; var iData	byte		OCR5AL	.EQU	128h	; var iData	byte
ICR5H	.EQU	127h	; var iData	byte		ICR5H	.EQU	127h	; var iData	byte
ICR5L	.EQU	126h	; var iData	byte		ICR5L	.EQU	126h	; var iData	byte
TCNT5H	.EQU	125h	; var iData	byte		TCNT5H	.EQU	125h	; var iData	byte
TCNT5L	.EQU	124h	; var iData	byte		TCNT5L	.EQU	124h	; var iData	byte
TCCR5C	.EQU	122h	; var iData	byte		TCCR5C	.EQU	122h	; var iData	byte
TCCR5B	.EQU	121h	; var iData	byte		TCCR5B	.EQU	121h	; var iData	byte
TCCR5A	.EQU	120h	; var iData	byte		TCCR5A	.EQU	120h	; var iData	byte
PORTL	.EQU	10Bh	; var iData	byte		PORTL	.EQU	10Bh	; var iData	byte
DDRL	.EQU	10Ah	; var iData	byte		DDRL	.EQU	10Ah	; var iData	byte

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PINL	.EQU	109h	; var iData	byte	PINL	.EQU	109h	; var iData	byte
PORTK	.EQU	108h	; var iData	byte	PORTK	.EQU	108h	; var iData	byte
DDRK	.EQU	107h	; var iData	byte	DDRK	.EQU	107h	; var iData	byte
PINK	.EQU	106h	; var iData	byte	PINK	.EQU	106h	; var iData	byte
PORTJ	.EQU	105h	; var iData	byte	PORTJ	.EQU	105h	; var iData	byte
DDRJ	.EQU	104h	; var iData	byte	DDRJ	.EQU	104h	; var iData	byte
PINJ	.EQU	103h	; var iData	byte	PINJ	.EQU	103h	; var iData	byte
PORTH	.EQU	102h	; var iData	byte	PORTH	.EQU	102h	; var iData	byte
DDRH	.EQU	101h	; var iData	byte	DDRH	.EQU	101h	; var iData	byte
PINH	.EQU	100h	; var iData	byte	PINH	.EQU	100h	; var iData	byte
UDR2	.EQU	0D6h	; var iData	byte	UDR2	.EQU	0D6h	; var iData	byte
UBRR2H	.EQU	0D5h	; var iData	byte	UBRR2H	.EQU	0D5h	; var iData	byte
UBRR2L	.EQU	0D4h	; var iData	byte	UBRR2L	.EQU	0D4h	; var iData	byte
UCSR2C	.EQU	0D2h	; var iData	byte	UCSR2C	.EQU	0D2h	; var iData	byte
UCSR2B	.EQU	0D1h	; var iData	byte	UCSR2B	.EQU	0D1h	; var iData	byte
UCSR2A	.EQU	0D0h	; var iData	byte	UCSR2A	.EQU	0D0h	; var iData	byte
UDR1	.EQU	0CEh	; var iData	byte	UDR1	.EQU	0CEh	; var iData	byte
UBRR1H	.EQU	0CDh	; var iData	byte	UBRR1H	.EQU	0CDh	; var iData	byte
UBRR1L	.EQU	0CCh	; var iData	byte	UBRR1L	.EQU	0CCh	; var iData	byte
UCSR1C	.EQU	0CAh	; var iData	byte	UCSR1C	.EQU	0CAh	; var iData	byte
UCSR1B	.EQU	0C9h	; var iData	byte	UCSR1B	.EQU	0C9h	; var iData	byte
UCSR1A	.EQU	0C8h	; var iData	byte	UCSR1A	.EQU	0C8h	; var iData	byte
UDR0	.EQU	0C6h	; var iData	byte	UDR0	.EQU	0C6h	; var iData	byte
UBRR0H	.EQU	0C5h	; var iData	byte	UBRR0H	.EQU	0C5h	; var iData	byte
UBRR0L	.EQU	0C4h	; var iData	byte	UBRR0L	.EQU	0C4h	; var iData	byte
UCSR0C	.EQU	0C2h	; var iData	byte	UCSR0C	.EQU	0C2h	; var iData	byte
UCSR0B	.EQU	0C1h	; var iData	byte	UCSR0B	.EQU	0C1h	; var iData	byte
UCSR0A	.EQU	0C0h	; var iData	byte	UCSR0A	.EQU	0C0h	; var iData	byte
TWAMR	.EQU	0BDh	; var iData	byte	TWAMR	.EQU	0BDh	; var iData	byte
TWCR	.EQU	0BCh	; var iData	byte	TWCR	.EQU	0BCh	; var iData	byte
TWDR	.EQU	0BBh	; var iData	byte	TWDR	.EQU	0BBh	; var iData	byte
TWAR	.EQU	0BAh	; var iData	byte	TWAR	.EQU	0BAh	; var iData	byte
TWSR	.EQU	0B9h	; var iData	byte	TWSR	.EQU	0B9h	; var iData	byte
TWBR	.EQU	0B8h	; var iData	byte	TWBR	.EQU	0B8h	; var iData	byte
ASSR	.EQU	0B6h	; var iData	byte	ASSR	.EQU	0B6h	; var iData	byte
OCR2B	.EQU	0B4h	; var iData	byte	OCR2B	.EQU	0B4h	; var iData	byte
OCR2	.EQU	0B3h	; var iData	byte	OCR2	.EQU	0B3h	; var iData	byte
OCR2A	.EQU	0B3h	; var iData	byte	OCR2A	.EQU	0B3h	; var iData	byte

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TCNT2	.EQU	0B2h	; var iData	byte	TCNT2	.EQU	0B2h	; var iData	byte
TCCR2B	.EQU	0B1h	; var iData	byte	TCCR2B	.EQU	0B1h	; var iData	byte
TCCR2	.EQU	0B1h	; var iData	byte	TCCR2	.EQU	0B1h	; var iData	byte
TCCR2A	.EQU	0B0h	; var iData	byte	TCCR2A	.EQU	0B0h	; var iData	byte
OCR4CH	.EQU	0ADh	; var iData	byte	OCR4CH	.EQU	0ADh	; var iData	byte
OCR4CL	.EQU	0ACh	; var iData	byte	OCR4CL	.EQU	0ACh	; var iData	byte
OCR4BH	.EQU	0ABh	; var iData	byte	OCR4BH	.EQU	0ABh	; var iData	byte
OCR4BL	.EQU	0AAh	; var iData	byte	OCR4BL	.EQU	0AAh	; var iData	byte
OCR4AH	.EQU	0A9h	; var iData	byte	OCR4AH	.EQU	0A9h	; var iData	byte
OCR4AL	.EQU	0A8h	; var iData	byte	OCR4AL	.EQU	0A8h	; var iData	byte
ICR4H	.EQU	0A7h	; var iData	byte	ICR4H	.EQU	0A7h	; var iData	byte
ICR4L	.EQU	0A6h	; var iData	byte	ICR4L	.EQU	0A6h	; var iData	byte
TCNT4H	.EQU	0A5h	; var iData	byte	TCNT4H	.EQU	0A5h	; var iData	byte
TCNT4L	.EQU	0A4h	; var iData	byte	TCNT4L	.EQU	0A4h	; var iData	byte
TCCR4C	.EQU	0A2h	; var iData	byte	TCCR4C	.EQU	0A2h	; var iData	byte
TCCR4B	.EQU	0A1h	; var iData	byte	TCCR4B	.EQU	0A1h	; var iData	byte
TCCR4A	.EQU	0A0h	; var iData	byte	TCCR4A	.EQU	0A0h	; var iData	byte
OCR3CH	.EQU	09Dh	; var iData	byte	OCR3CH	.EQU	09Dh	; var iData	byte
OCR3CL	.EQU	09Ch	; var iData	byte	OCR3CL	.EQU	09Ch	; var iData	byte
OCR3BH	.EQU	09Bh	; var iData	byte	OCR3BH	.EQU	09Bh	; var iData	byte
OCR3BL	.EQU	09Ah	; var iData	byte	OCR3BL	.EQU	09Ah	; var iData	byte
OCR3AH	.EQU	099h	; var iData	byte	OCR3AH	.EQU	099h	; var iData	byte
OCR3AL	.EQU	098h	; var iData	byte	OCR3AL	.EQU	098h	; var iData	byte
ICR3H	.EQU	097h	; var iData	byte	ICR3H	.EQU	097h	; var iData	byte
ICR3L	.EQU	096h	; var iData	byte	ICR3L	.EQU	096h	; var iData	byte
TCNT3H	.EQU	095h	; var iData	byte	TCNT3H	.EQU	095h	; var iData	byte
TCNT3L	.EQU	094h	; var iData	byte	TCNT3L	.EQU	094h	; var iData	byte
TCCR3C	.EQU	092h	; var iData	byte	TCCR3C	.EQU	092h	; var iData	byte
TCCR3B	.EQU	091h	; var iData	byte	TCCR3B	.EQU	091h	; var iData	byte
TCCR3A	.EQU	090h	; var iData	byte	TCCR3A	.EQU	090h	; var iData	byte
OCR1CH	.EQU	08Dh	; var iData	byte	OCR1CH	.EQU	08Dh	; var iData	byte
OCR1CL	.EQU	08Ch	; var iData	byte	OCR1CL	.EQU	08Ch	; var iData	byte
OCR1BH	.EQU	08Bh	; var iData	byte	OCR1BH	.EQU	08Bh	; var iData	byte
OCR1BL	.EQU	08Ah	; var iData	byte	OCR1BL	.EQU	08Ah	; var iData	byte
OCR1AH	.EQU	089h	; var iData	byte	OCR1AH	.EQU	089h	; var iData	byte
OCR1AL	.EQU	088h	; var iData	byte	OCR1AL	.EQU	088h	; var iData	byte
ICR1H	.EQU	087h	; var iData	byte	ICR1H	.EQU	087h	; var iData	byte
ICR1L	.EQU	086h	; var iData	byte	ICR1L	.EQU	086h	; var iData	byte

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TCNT1H	.EQU	085h	; var iData	byte	TCNT1H	.EQU	085h	; var iData	byte
TCNT1L	.EQU	084h	; var iData	byte	TCNT1L	.EQU	084h	; var iData	byte
TCCR1C	.EQU	082h	; var iData	byte	TCCR1C	.EQU	082h	; var iData	byte
TCCR1B	.EQU	081h	; var iData	byte	TCCR1B	.EQU	081h	; var iData	byte
TCCR1A	.EQU	080h	; var iData	byte	TCCR1A	.EQU	080h	; var iData	byte
DIDR1	.EQU	07Fh	; var iData	byte	DIDR1	.EQU	07Fh	; var iData	byte
DIDR0	.EQU	07Eh	; var iData	byte	DIDR0	.EQU	07Eh	; var iData	byte
DIDR2	.EQU	07Dh	; var iData	byte	DIDR2	.EQU	07Dh	; var iData	byte
ADMUX	.EQU	07Ch	; var iData	byte	ADMUX	.EQU	07Ch	; var iData	byte
ADCSRB	.EQU	07Bh	; var iData	byte	ADCSRB	.EQU	07Bh	; var iData	byte
ADCSR	.EQU	07Ah	; var iData	byte	ADCSR	.EQU	07Ah	; var iData	byte
ADCSRA	.EQU	07Ah	; var iData	byte	ADCSRA	.EQU	07Ah	; var iData	byte
ADCH	.EQU	079h	; var iData	byte	ADCH	.EQU	079h	; var iData	byte
ADCL	.EQU	078h	; var iData	byte	ADCL	.EQU	078h	; var iData	byte
XMCRB	.EQU	075h	; var iData	byte	XMCRB	.EQU	075h	; var iData	byte
XMCRA	.EQU	074h	; var iData	byte	XMCRA	.EQU	074h	; var iData	byte
TIMSK5	.EQU	073h	; var iData	byte	TIMSK5	.EQU	073h	; var iData	byte
TIMSK4	.EQU	072h	; var iData	byte	TIMSK4	.EQU	072h	; var iData	byte
TIMSK3	.EQU	071h	; var iData	byte	TIMSK3	.EQU	071h	; var iData	byte
TIMSK2	.EQU	070h	; var iData	byte	TIMSK2	.EQU	070h	; var iData	byte
TIMSK1	.EQU	06Fh	; var iData	byte	TIMSK1	.EQU	06Fh	; var iData	byte
TIMSK0	.EQU	06Eh	; var iData	byte	TIMSK0	.EQU	06Eh	; var iData	byte
PCMSK2	.EQU	06Dh	; var iData	byte	PCMSK2	.EQU	06Dh	; var iData	byte
PCMSK1	.EQU	06Ch	; var iData	byte	PCMSK1	.EQU	06Ch	; var iData	byte
PCMSK0	.EQU	06Bh	; var iData	byte	PCMSK0	.EQU	06Bh	; var iData	byte
EICRB	.EQU	06Ah	; var iData	byte	EICRB	.EQU	06Ah	; var iData	byte
EICRA	.EQU	069h	; var iData	byte	EICRA	.EQU	069h	; var iData	byte
PCICR	.EQU	068h	; var iData	byte	PCICR	.EQU	068h	; var iData	byte
OSCCAL	.EQU	066h	; var iData	byte	OSCCAL	.EQU	066h	; var iData	byte
PRR1	.EQU	065h	; var iData	byte	PRR1	.EQU	065h	; var iData	byte
PRR0	.EQU	064h	; var iData	byte	PRR0	.EQU	064h	; var iData	byte
CLKPR	.EQU	061h	; var iData	byte	CLKPR	.EQU	061h	; var iData	byte
WDTCR	.EQU	060h	; var iData	byte	WDTCR	.EQU	060h	; var iData	byte
WDTCR	.EQU	060h	; var iData	byte	WDTCR	.EQU	060h	; var iData	byte
SREG	.EQU	05Fh	; var pData	byte	SREG	.EQU	05Fh	; var pData	byte
SPH	.EQU	05Eh	; var pData	byte	SPH	.EQU	05Eh	; var pData	byte
SPL	.EQU	05Dh	; var pData	byte	SPL	.EQU	05Dh	; var pData	byte
EIND	.EQU	05Ch	; var pData	byte	EIND	.EQU	05Ch	; var pData	byte

Left file: C:\Users\scart\Desktop\test_1280.asm Right file: C:\Users\scart\Desktop\test_2560.asm (continued)

RAMPZ	.EQU	05Bh	; var pData	byte	RAMPZ	.EQU	05Bh	; var pData	byte
SPMCSR	.EQU	057h	; var pData	byte	SPMCSR	.EQU	057h	; var pData	byte
SPMCR	.EQU	057h	; var pData	byte	SPMCR	.EQU	057h	; var pData	byte
MCUCR	.EQU	055h	; var pData	byte	MCUCR	.EQU	055h	; var pData	byte
MCUCSR	.EQU	054h	; var pData	byte	MCUCSR	.EQU	054h	; var pData	byte
MCUSR	.EQU	054h	; var pData	byte	MCUSR	.EQU	054h	; var pData	byte
SMCR	.EQU	053h	; var pData	byte	SMCR	.EQU	053h	; var pData	byte
OCDR	.EQU	051h	; var pData	byte	OCDR	.EQU	051h	; var pData	byte
MONDR	.EQU	051h	; var pData	byte	MONDR	.EQU	051h	; var pData	byte
ACSR	.EQU	050h	; var pData	byte	ACSR	.EQU	050h	; var pData	byte
SPDR	.EQU	04Eh	; var pData	byte	SPDR	.EQU	04Eh	; var pData	byte
SPSR	.EQU	04Dh	; var pData	byte	SPSR	.EQU	04Dh	; var pData	byte
SPCR	.EQU	04Ch	; var pData	byte	SPCR	.EQU	04Ch	; var pData	byte
GPIOR2	.EQU	04Bh	; var pData	byte	GPIOR2	.EQU	04Bh	; var pData	byte
GPIOR1	.EQU	04Ah	; var pData	byte	GPIOR1	.EQU	04Ah	; var pData	byte
OCR0B	.EQU	048h	; var pData	byte	OCR0B	.EQU	048h	; var pData	byte
OCR0	.EQU	047h	; var pData	byte	OCR0	.EQU	047h	; var pData	byte
OCR0A	.EQU	047h	; var pData	byte	OCR0A	.EQU	047h	; var pData	byte
TCNT0	.EQU	046h	; var pData	byte	TCNT0	.EQU	046h	; var pData	byte
TCCR0B	.EQU	045h	; var pData	byte	TCCR0B	.EQU	045h	; var pData	byte
TCCR0	.EQU	045h	; var pData	byte	TCCR0	.EQU	045h	; var pData	byte
TCCR0A	.EQU	044h	; var pData	byte	TCCR0A	.EQU	044h	; var pData	byte
GTCCR	.EQU	043h	; var pData	byte	GTCCR	.EQU	043h	; var pData	byte
EEARH	.EQU	042h	; var pData	byte	EEARH	.EQU	042h	; var pData	byte
EEARL	.EQU	041h	; var pData	byte	EEARL	.EQU	041h	; var pData	byte
EEDR	.EQU	040h	; var pData	byte	EEDR	.EQU	040h	; var pData	byte
EECR	.EQU	03Fh	; var pData	byte	EECR	.EQU	03Fh	; var pData	byte
GPIOR0	.EQU	03Eh	; var pData	byte	GPIOR0	.EQU	03Eh	; var pData	byte
EIMSK	.EQU	03Dh	; var pData	byte	EIMSK	.EQU	03Dh	; var pData	byte
EIFR	.EQU	03Ch	; var pData	byte	EIFR	.EQU	03Ch	; var pData	byte
PCIFR	.EQU	03Bh	; var pData	byte	PCIFR	.EQU	03Bh	; var pData	byte
TIFR5	.EQU	03Ah	; var pData	byte	TIFR5	.EQU	03Ah	; var pData	byte
TIFR4	.EQU	039h	; var pData	byte	TIFR4	.EQU	039h	; var pData	byte
TIFR3	.EQU	038h	; var pData	byte	TIFR3	.EQU	038h	; var pData	byte
TIFR2	.EQU	037h	; var pData	byte	TIFR2	.EQU	037h	; var pData	byte
TIFR1	.EQU	036h	; var pData	byte	TIFR1	.EQU	036h	; var pData	byte
TIFR0	.EQU	035h	; var pData	byte	TIFR0	.EQU	035h	; var pData	byte
PORTG	.EQU	034h	; var pData	byte	PORTG	.EQU	034h	; var pData	byte

Left file: C:\Users\scart\Desktop\test_1280.asm Right file: C:\Users\scart\Desktop\test_2560.asm (continued)

DDRG	.EQU	033h	; var pData	byte	DDRG	.EQU	033h	; var pData	byte
PING	.EQU	032h	; var pData	byte	PING	.EQU	032h	; var pData	byte
PORTF	.EQU	031h	; var pData	byte	PORTF	.EQU	031h	; var pData	byte
DDRF	.EQU	030h	; var pData	byte	DDRF	.EQU	030h	; var pData	byte
PINF	.EQU	02Fh	; var pData	byte	PINF	.EQU	02Fh	; var pData	byte
PORTE	.EQU	02Eh	; var pData	byte	PORTE	.EQU	02Eh	; var pData	byte
DDRE	.EQU	02Dh	; var pData	byte	DDRE	.EQU	02Dh	; var pData	byte
PINE	.EQU	02Ch	; var pData	byte	PINE	.EQU	02Ch	; var pData	byte
PORTD	.EQU	02Bh	; var pData	byte	PORTD	.EQU	02Bh	; var pData	byte
DDRD	.EQU	02Ah	; var pData	byte	DDRD	.EQU	02Ah	; var pData	byte
PIND	.EQU	029h	; var pData	byte	PIND	.EQU	029h	; var pData	byte
PORTC	.EQU	028h	; var pData	byte	PORTC	.EQU	028h	; var pData	byte
DDRC	.EQU	027h	; var pData	byte	DDRC	.EQU	027h	; var pData	byte
PINC	.EQU	026h	; var pData	byte	PINC	.EQU	026h	; var pData	byte
PORTB	.EQU	025h	; var pData	byte	PORTB	.EQU	025h	; var pData	byte
DDRB	.EQU	024h	; var pData	byte	DDRB	.EQU	024h	; var pData	byte
PINB	.EQU	023h	; var pData	byte	PINB	.EQU	023h	; var pData	byte
PORTA	.EQU	022h	; var pData	byte	PORTA	.EQU	022h	; var pData	byte
DDRA	.EQU	021h	; var pData	byte	DDRA	.EQU	021h	; var pData	byte
PINA	.EQU	020h	; var pData	byte	PINA	.EQU	020h	; var pData	byte
TCNT5	.EQU	124h	; var iData	word	TCNT5	.EQU	124h	; var iData	word
OCR5A	.EQU	128h	; var iData	word	OCR5A	.EQU	128h	; var iData	word
OCR5B	.EQU	12Ah	; var iData	word	OCR5B	.EQU	12Ah	; var iData	word
OCR5C	.EQU	12Ch	; var iData	word	OCR5C	.EQU	12Ch	; var iData	word
ICR5	.EQU	126h	; var iData	word	ICR5	.EQU	126h	; var iData	word
TCNT4	.EQU	0A4h	; var iData	word	TCNT4	.EQU	0A4h	; var iData	word
OCR4A	.EQU	0A8h	; var iData	word	OCR4A	.EQU	0A8h	; var iData	word
OCR4B	.EQU	0AAh	; var iData	word	OCR4B	.EQU	0AAh	; var iData	word
OCR4C	.EQU	0ACh	; var iData	word	OCR4C	.EQU	0ACh	; var iData	word
ICR4	.EQU	0A6h	; var iData	word	ICR4	.EQU	0A6h	; var iData	word
TCNT3	.EQU	094h	; var iData	word	TCNT3	.EQU	094h	; var iData	word
OCR3A	.EQU	098h	; var iData	word	OCR3A	.EQU	098h	; var iData	word
OCR3B	.EQU	09Ah	; var iData	word	OCR3B	.EQU	09Ah	; var iData	word
OCR3C	.EQU	09Ch	; var iData	word	OCR3C	.EQU	09Ch	; var iData	word
ICR3	.EQU	096h	; var iData	word	ICR3	.EQU	096h	; var iData	word
OCR1C	.EQU	08Ch	; var iData	word	OCR1C	.EQU	08Ch	; var iData	word
TCNT1	.EQU	084h	; var iData	word	TCNT1	.EQU	084h	; var iData	word
OCR1A	.EQU	088h	; var iData	word	OCR1A	.EQU	088h	; var iData	word

Left file: C:\Users\scart\Desktop\test_1280.asm Right file: C:\Users\scart\Desktop\test_2560.asm (continued)

OCR1B	.EQU	08Ah	; var iData word	<>	OCR1B	.EQU	08Ah	; var iData word
ICR1	.EQU	086h	; var iData word	=	ICR1	.EQU	086h	; var iData word
EEAR	.EQU	041h	; var pData word		EEAR	.EQU	041h	; var pData word
ADC	.EQU	078h	; var iData word		ADC	.EQU	078h	; var iData word
_iDataStart	.EQU	200h	; const		_iDataStart	.EQU	200h	; const
_iDataEnd	.EQU	21FFh	; const		_iDataEnd	.EQU	21FFh	; const
_EepromStart	.EQU	000h	; const		_EepromStart	.EQU	000h	; const
_EepromEnd	.EQU	0FFFh	; const		_EepromEnd	.EQU	0FFFh	; const
_FlashStart	.EQU	000h	; const		_FlashStart	.EQU	000h	; const
_FlashEnd	.EQU	1FFFFh	; const		_FlashEnd	.EQU	3FFFFh	; const
SysTickTime	.EQU	200h	; var iData byte		SysTickTime	.EQU	200h	; var iData byte
EEPROM	.EQU	000h	; var Eeprom array		EEPROM	.EQU	000h	; var Eeprom array
EEPROMEND	.EQU	0FFFh	; const		EEPROMEND	.EQU	0FFFh	; const
<pre> .RESET 000000h .ORG 000000h, CODE_START ;_STARTCODE .STARTCODE 0000E4h .UNIT LCD_Test .XDATASTART -1 ; ===== user definitions module: LCD_ ; ++++++ ; Program body ; ++++++ .FUNC \$_Main, 00018h, 00020h .ENTRYMAIN \$ LCD_Test.\$_Main: </pre>					<pre> .RESET 000000h .ORG 000000h, CODE_START ;_STARTCODE .STARTCODE 0000E4h .UNIT LCD_Test .XDATASTART -1 ; ===== user definitions module: LCD_ ; ++++++ ; Program body ; ++++++ .FUNC \$_Main, 00018h, 00020h .ENTRYMAIN \$ LCD_Test.\$_Main: </pre>			

Left file: C:\Users\scart\Desktop\test_1280.asm Right file: C:\Users\scart\Desktop\test_2560.asm (continued)

.BLOCK 24			.BLOCK 24
.LINE 25			.LINE 25
LDI _ACCA, 1 SHLB IntFlag			LDI _ACCA, 1 SHLB IntFlag
OR Flags, _ACCA			OR Flags, _ACCA
SEI			SEI
.LINE 26			.LINE 26
PUSH _FRAMEPTR			PUSH _FRAMEPTR
PUSH _FPTRHI			PUSH _FPTRHI
LDI _ACCA, 1 SHLB _DEVICE			LDI _ACCA, 1 SHLB _DEVICE
OR Flags, _ACCA			OR Flags, _ACCA
LDI _ACCB, SYSTEM.LCDOut SHRB 1			LDI _ACCB, SYSTEM.LCDOut SHRB 1
LDI _ACCA, SYSTEM.LCDOut SHRB 9			LDI _ACCA, SYSTEM.LCDOut SHRB 9
	-+		LDI _ACCALO, SYSTEM.LCDOut SHRB 17
ST -Y, _ACCA	=		ST -Y, _ACCA
ST -Y, _ACCB			ST -Y, _ACCB
	<>		ST -Y, _ACCALO
.FRAME 2			.FRAME 3
LDI _ACCLO, \$St_String1 AND 0FFh	=		LDI _ACCLO, \$St_String1 AND 0FFh
LDI _ACCCHI, \$St_String1 SHRB 8			LDI _ACCCHI, \$St_String1 SHRB 8
RCALL SYSTEM.StrConst2Str			RCALL SYSTEM.StrConst2Str
POP _FPTRHI			POP _FPTRHI
POP _FRAMEPTR			POP _FRAMEPTR
.FRAME 0			.FRAME 0
LCD_Test._L0001:			LCD_Test._L0001:
.BLOCK 28			.BLOCK 28
.ENDBLOCK 28			.ENDBLOCK 28
.LINE 28			.LINE 28
.BRANCH 20,LCD_Test._L0001			.BRANCH 20,LCD_Test._L0001
RJMP LCD_Test._L0001			RJMP LCD_Test._L0001
.ENDBLOCK 30			.ENDBLOCK 30
LCD_Test.\$_MAINEX:			LCD_Test.\$_MAINEX:
.LINE 30			.LINE 30
NOP			NOP
.LINE 30			.LINE 30
.BRANCH 20,LCD_Test.\$_MAINEX			.BRANCH 20,LCD_Test.\$_MAINEX
RJMP LCD_Test.\$_MAINEX			RJMP LCD_Test.\$_MAINEX

Left file: C:\Users\scart\Desktop\test_1280.asm Right file: C:\Users\scart\Desktop\test_2560.asm (continued)

<pre> .ENDFUNC 30 SYSTEM.\$Main_stk .EQU 00201h ; var iData Process SYSTEM.\$Main_stk_e .EQU 002FFh ; var iData Process SYSTEM.\$Main_reg .EQU 00300h ; var iData Process SYSTEM.\$Main_reg_e .EQU 00310h ; var iData Process SYSTEM.\$Main_Frame .EQU 00311h ; var iData Process SYSTEM.\$Main_Frame_e .EQU 0040Fh ; var iData Process ; ++++++ ; Initialisation and Library Routines ; ++++++ .ENTRY SYSTEM.RESET: LDI _ACCA, 01h </pre>	<pre><></pre>	<pre> .ENDFUNC 30 SYSTEM.\$Main_stk .EQU 00201h ; var iData Process SYSTEM.\$Main_stk_e .EQU 002FFh ; var iData Process SYSTEM.\$Main_reg .EQU 00300h ; var iData Process SYSTEM.\$Main_reg_e .EQU 00310h ; var iData Process SYSTEM.\$Main_Frame .EQU 00311h ; var iData Process SYSTEM.\$Main_Frame_e .EQU 0040Fh ; var iData Process ; ++++++ ; Initialisation and Library Routines ; ++++++ .ENTRY SYSTEM.RESET: LDI _ACCA, 0 OUT EIND, _ACCA LDI _ACCA, 03h </pre>
<pre> OUT RAMPZ, _ACCA CLI ; >> Stack Init [main process only] << LDI _ACCA, 002h LDI _ACCB, 0FFh OUT sph, _ACCA OUT spl, _ACCB ; External SRAM control LDS _ACCA, xmcra CBR _ACCA, 0Fh ; one Peripheral sram-waits SBR _ACCA, 05h STS xmcra, _ACCA ; >> Memory init << CLR _ACCA LDI _ACCLO, 16 LDI _ACCCHI, 0 </pre>	<pre>=</pre>	<pre> OUT RAMPZ, _ACCA CLI ; >> Stack Init [main process only] << LDI _ACCA, 002h LDI _ACCB, 0FFh OUT sph, _ACCA OUT spl, _ACCB ; External SRAM control LDS _ACCA, xmcra CBR _ACCA, 0Fh ; one Peripheral sram-waits SBR _ACCA, 05h STS xmcra, _ACCA ; >> Memory init << CLR _ACCA LDI _ACCLO, 16 LDI _ACCCHI, 0 </pre>

Left file: C:\Users\scart\Desktop\test_1280.asm Right file: C:\Users\scart\Desktop\test_2560.asm (continued)

```

        LDI        _ACCBLO, 0
        LDI        _ACCBHI, 0
        ADIW       _ACCULO, 1
        NOP

SYSTEM._L0003:
        SBIW       _ACCULO, 001h
        BREQ       SYSTEM._L0005
        ST         X+, _ACCA
        RJMP      SYSTEM._L0003

SYSTEM._L0005:
        LDI        _ACCBLO, 00200h AND 0FFh
        LDI        _ACCBHI, 00200h SHRB 8
        LDI        _ACCULO, 02000h AND 0FFh
        LDI        _ACCCHI, 02000h SHRB 8
        ADIW       _ACCULO, 1
        NOP

SYSTEM._L0006:
        SBIW       _ACCULO, 001h
        BREQ       SYSTEM._L0008
        ST         X+, _ACCA
        RJMP      SYSTEM._L0006

SYSTEM._L0008:
        LDI        _FRAMEPTR, 0040Fh AND 0FFh
        LDI        _FPTRHI, 0040Fh SHRB 8

        CLI
        LDI        _ACCA, 0FEH ROLB IntFlag
        AND        Flags, _ACCA

; ===== init structured constants =====
; >> Hardware Init <<

; >> SysTick init: 10msec <<
; >> real SysTick (exact): 9.984 msec <<
        LDI        _ACCA, 064h
        STS        SysTickTime, _ACCA
        OUT        tcnt0, _ACCA
        LDI        _ACCA, 5

```

```

        LDI        _ACCBLO, 0
        LDI        _ACCBHI, 0
        ADIW       _ACCULO, 1
        NOP

SYSTEM._L0003:
        SBIW       _ACCULO, 001h
        BREQ       SYSTEM._L0005
        ST         X+, _ACCA
        RJMP      SYSTEM._L0003

SYSTEM._L0005:
        LDI        _ACCBLO, 00200h AND 0FFh
        LDI        _ACCBHI, 00200h SHRB 8
        LDI        _ACCULO, 02000h AND 0FFh
        LDI        _ACCCHI, 02000h SHRB 8
        ADIW       _ACCULO, 1
        NOP

SYSTEM._L0006:
        SBIW       _ACCULO, 001h
        BREQ       SYSTEM._L0008
        ST         X+, _ACCA
        RJMP      SYSTEM._L0006

SYSTEM._L0008:
        LDI        _FRAMEPTR, 0040Fh AND 0FFh
        LDI        _FPTRHI, 0040Fh SHRB 8

        CLI
        LDI        _ACCA, 0FEH ROLB IntFlag
        AND        Flags, _ACCA

; ===== init structured constants =====
; >> Hardware Init <<

; >> SysTick init: 10msec <<
; >> real SysTick (exact): 9.984 msec <<
        LDI        _ACCA, 064h
        STS        SysTickTime, _ACCA
        OUT        tcnt0, _ACCA
        LDI        _ACCA, 5

```

Left file: C:\Users\scart\Desktop\test_1280.asm Right file: C:\Users\scart\Desktop\test_2560.asm (continued)

```

OUT      tccr0, _ACCA
LDI      _ACCA, 001h
STS      tmsk0, _ACCA

```

```

; >> LCD Init <<
IN       _ACCA, 022h
ANDI    _ACCA, 080h
OUT     022h, _ACCA
IN       _ACCA, 021h
ORI     _ACCA, 07Fh
OUT     021h, _ACCA
IN       _ACCA, 022h
ORI     _ACCA, 03h
OUT     022h, _ACCA
LDI     _ACCB, 16
CLR     _ACCA
RCALL   SYSTEM.MDELAY
IN       _ACCA, 022h
ORI     _ACCA, 10h
OUT     022h, _ACCA
PUSH    _ACCA
LDI     _ACCA, 30h

```

SYSTEM._L0011:

```

DEC     _ACCA
BRNE    SYSTEM._L0011
POP     _ACCA
IN       _ACCA, 022h
ANDI    _ACCA, 0EFh
OUT     022h, _ACCA
LDI     _ACCB, 5
CLR     _ACCA
RCALL   SYSTEM.MDELAY
IN       _ACCA, 022h
ORI     _ACCA, 10h
OUT     022h, _ACCA
PUSH    _ACCA
LDI     _ACCA, 30h

```

SYSTEM._L0012:

```

OUT      tccr0, _ACCA
LDI      _ACCA, 001h
STS      tmsk0, _ACCA

```

```

; >> LCD Init <<
IN       _ACCA, 022h
ANDI    _ACCA, 080h
OUT     022h, _ACCA
IN       _ACCA, 021h
ORI     _ACCA, 07Fh
OUT     021h, _ACCA
IN       _ACCA, 022h
ORI     _ACCA, 03h
OUT     022h, _ACCA
LDI     _ACCB, 16
CLR     _ACCA
RCALL   SYSTEM.MDELAY
IN       _ACCA, 022h
ORI     _ACCA, 10h
OUT     022h, _ACCA
PUSH    _ACCA
LDI     _ACCA, 30h

```

SYSTEM._L0011:

```

DEC     _ACCA
BRNE    SYSTEM._L0011
POP     _ACCA
IN       _ACCA, 022h
ANDI    _ACCA, 0EFh
OUT     022h, _ACCA
LDI     _ACCB, 5
CLR     _ACCA
RCALL   SYSTEM.MDELAY
IN       _ACCA, 022h
ORI     _ACCA, 10h
OUT     022h, _ACCA
PUSH    _ACCA
LDI     _ACCA, 30h

```

SYSTEM._L0012:

Left file: C:\Users\scart\Desktop\test_1280.asm Right file: C:\Users\scart\Desktop\test_2560.asm (continued)

```
DEC      _ACCA
BRNE     SYSTEM._L0012
POP      _ACCA
IN       _ACCA, 022h
ANDI     _ACCA, 0EFh
OUT      022h, _ACCA
LDI      _ACCB, 1
CLR      _ACCA
RCALL    SYSTEM.MDELAY
IN       _ACCA, 022h
ORI      _ACCA, 10h
OUT      022h, _ACCA
PUSH     _ACCA
LDI      _ACCA, 30h
```

SYSTEM._L0013:

```
DEC      _ACCA
BRNE     SYSTEM._L0013
POP      _ACCA
IN       _ACCA, 022h
ANDI     _ACCA, 0EFh
OUT      022h, _ACCA
LDI      _ACCA, 2
OUT      022h, _ACCA
LDI      _ACCB, 1
CLR      _ACCA
RCALL    SYSTEM.MDELAY
IN       _ACCA, 022h
ORI      _ACCA, 10h
OUT      022h, _ACCA
PUSH     _ACCA
LDI      _ACCA, 30h
```

SYSTEM._L0014:

```
DEC      _ACCA
BRNE     SYSTEM._L0014
POP      _ACCA
IN       _ACCA, 022h
ANDI     _ACCA, 0EFh
OUT      022h, _ACCA
```

```
DEC      _ACCA
BRNE     SYSTEM._L0012
POP      _ACCA
IN       _ACCA, 022h
ANDI     _ACCA, 0EFh
OUT      022h, _ACCA
LDI      _ACCB, 1
CLR      _ACCA
RCALL    SYSTEM.MDELAY
IN       _ACCA, 022h
ORI      _ACCA, 10h
OUT      022h, _ACCA
PUSH     _ACCA
LDI      _ACCA, 30h
```

SYSTEM._L0013:

```
DEC      _ACCA
BRNE     SYSTEM._L0013
POP      _ACCA
IN       _ACCA, 022h
ANDI     _ACCA, 0EFh
OUT      022h, _ACCA
LDI      _ACCA, 2
OUT      022h, _ACCA
LDI      _ACCB, 1
CLR      _ACCA
RCALL    SYSTEM.MDELAY
IN       _ACCA, 022h
ORI      _ACCA, 10h
OUT      022h, _ACCA
PUSH     _ACCA
LDI      _ACCA, 30h
```

SYSTEM._L0014:

```
DEC      _ACCA
BRNE     SYSTEM._L0014
POP      _ACCA
IN       _ACCA, 022h
ANDI     _ACCA, 0EFh
OUT      022h, _ACCA
```

Left file: C:\Users\scart\Desktop\test_1280.asm Right file: C:\Users\scart\Desktop\test_2560.asm (continued)

```

        LDI     _ACCB, 1
        CLR     _ACCA
        RCALL   SYSTEM.MDELAY
        IN      _ACCA, 022h
        ORI     _ACCA, 10h
        OUT     022h, _ACCA
        PUSH    _ACCA
        LDI     _ACCA, 30h
SYSTEM._L0015:
        DEC     _ACCA
        BRNE    SYSTEM._L0015
        POP     _ACCA
        IN      _ACCA, 022h
        ANDI    _ACCA, 0EFh
        OUT     022h, _ACCA
        LDI     _ACCA, 8
        OUT     022h, _ACCA
        LDI     _ACCB, 1
        CLR     _ACCA
        RCALL   SYSTEM.MDELAY
        IN      _ACCA, 022h
        ORI     _ACCA, 10h
        OUT     022h, _ACCA
        PUSH    _ACCA
        LDI     _ACCA, 30h
SYSTEM._L0016:
        DEC     _ACCA
        BRNE    SYSTEM._L0016
        POP     _ACCA
        IN      _ACCA, 022h
        ANDI    _ACCA, 0EFh
        OUT     022h, _ACCA
        LDI     _ACCA, 0Ch
        RCALL   SYSTEM.LCDCTRL
        LDI     _ACCA, 1
        RCALL   SYSTEM.LCDCTRL
        LDI     _ACCA, 6
        RCALL   SYSTEM.LCDCTRL

```

```

        LDI     _ACCB, 1
        CLR     _ACCA
        RCALL   SYSTEM.MDELAY
        IN      _ACCA, 022h
        ORI     _ACCA, 10h
        OUT     022h, _ACCA
        PUSH    _ACCA
        LDI     _ACCA, 30h
SYSTEM._L0015:
        DEC     _ACCA
        BRNE    SYSTEM._L0015
        POP     _ACCA
        IN      _ACCA, 022h
        ANDI    _ACCA, 0EFh
        OUT     022h, _ACCA
        LDI     _ACCA, 8
        OUT     022h, _ACCA
        LDI     _ACCB, 1
        CLR     _ACCA
        RCALL   SYSTEM.MDELAY
        IN      _ACCA, 022h
        ORI     _ACCA, 10h
        OUT     022h, _ACCA
        PUSH    _ACCA
        LDI     _ACCA, 30h
SYSTEM._L0016:
        DEC     _ACCA
        BRNE    SYSTEM._L0016
        POP     _ACCA
        IN      _ACCA, 022h
        ANDI    _ACCA, 0EFh
        OUT     022h, _ACCA
        LDI     _ACCA, 0Ch
        RCALL   SYSTEM.LCDCTRL
        LDI     _ACCA, 1
        RCALL   SYSTEM.LCDCTRL
        LDI     _ACCA, 6
        RCALL   SYSTEM.LCDCTRL

```

Left file: C:\Users\scart\Desktop\test_1280.asm Right file: C:\Users\scart\Desktop\test_2560.asm (continued)

<pre> CLR Flags CLR Flags2 ; ===== Start User Main Program ===== .DEB MAINENTRY RJMP LCD_Test.\$_Main ; ===== Interrupt Service ===== SYSTEM.\$INTERRUPT_TIMER0: .DEB SYSTICKENTRY PUSH _ACCCLO PUSH _ACCCHI PUSH _ACCB PUSH _ACCA IN _ACCA, SREG PUSH _ACCA </pre>		<pre> CLR Flags CLR Flags2 ; ===== Start User Main Program ===== .DEB MAINENTRY RJMP LCD_Test.\$_Main ; ===== Interrupt Service ===== SYSTEM.\$INTERRUPT_TIMER0: .DEB SYSTICKENTRY PUSH _ACCCLO PUSH _ACCCHI PUSH _ACCB PUSH _ACCA IN _ACCA, SREG PUSH _ACCA </pre>
	--+	<pre> IN _ACCA, EIND PUSH _ACCA </pre>
<pre> LDS _ACCA, SysTickTime IN _ACCB, tcnt0 ADD _ACCA, _ACCB OUT tcnt0, _ACCA LDI _ACCA, 0FEH ROLB IntFlag AND Flags, _ACCA LDI _ACCA, 1 SHLB IntFlag OR Flags, _ACCA </pre>	=	<pre> LDS _ACCA, SysTickTime IN _ACCB, tcnt0 ADD _ACCA, _ACCB OUT tcnt0, _ACCA LDI _ACCA, 0FEH ROLB IntFlag AND Flags, _ACCA LDI _ACCA, 1 SHLB IntFlag OR Flags, _ACCA </pre>
	--+	<pre> POP _ACCA OUT EIND, _ACCA </pre>
<pre> POP _ACCA OUT SREG, _ACCA POP _ACCA POP _ACCB POP _ACCCHI POP _ACCCLO .DEB SYSTICKEXIT </pre>	=	<pre> POP _ACCA OUT SREG, _ACCA POP _ACCA POP _ACCB POP _ACCCHI POP _ACCCLO .DEB SYSTICKEXIT </pre>

Left file: C:\Users\scart\Desktop\test_1280.asm Right file: C:\Users\scart\Desktop\test_2560.asm (continued)

```

      RETI

      ; ===== Library =====

SYSTEM.LCDOUT:
      .DEB      LCDOUT

      PUSH     _ACCA
      RCALL    SYSTEM.LCDWAIT
      IN       _ACCA, 021h
      ORI      _ACCA, 07Fh
      OUT      021h, _ACCA
      IN       _ACCA, 022h
      ANDI     _ACCA, 0EFh
      ANDI     _ACCA, 090h
      ORI      _ACCA, 020h
      OUT      022h, _ACCA
      RJMP     SYSTEM.LCDOUTX
      .DEB      LCDCTRL

SYSTEM.LCDCTRL:
      PUSH     _ACCA
      RCALL    SYSTEM.LCDWAIT
      IN       _ACCA, 021h
      ORI      _ACCA, 07Fh
      OUT      021h, _ACCA
      IN       _ACCA, 022h
      ANDI     _ACCA, 0EFh
      ANDI     _ACCA, 090h
      OUT      022h, _ACCA

SYSTEM.LCDOUTX:
      POP      _ACCA
      PUSH     _ACCA
      SWAP     _ACCA
      ANDI     _ACCA, 0Fh
      IN       _ACCB, 022h
      OR       _ACCB, _ACCA
      OUT      022h, _ACCB
      POP      _ACCA

```

```

      RETI

      ; ===== Library =====

SYSTEM.LCDOUT:
      .DEB      LCDOUT

      PUSH     _ACCA
      RCALL    SYSTEM.LCDWAIT
      IN       _ACCA, 021h
      ORI      _ACCA, 07Fh
      OUT      021h, _ACCA
      IN       _ACCA, 022h
      ANDI     _ACCA, 0EFh
      ANDI     _ACCA, 090h
      ORI      _ACCA, 020h
      OUT      022h, _ACCA
      RJMP     SYSTEM.LCDOUTX
      .DEB      LCDCTRL

SYSTEM.LCDCTRL:
      PUSH     _ACCA
      RCALL    SYSTEM.LCDWAIT
      IN       _ACCA, 021h
      ORI      _ACCA, 07Fh
      OUT      021h, _ACCA
      IN       _ACCA, 022h
      ANDI     _ACCA, 0EFh
      ANDI     _ACCA, 090h
      OUT      022h, _ACCA

SYSTEM.LCDOUTX:
      POP      _ACCA
      PUSH     _ACCA
      SWAP     _ACCA
      ANDI     _ACCA, 0Fh
      IN       _ACCB, 022h
      OR       _ACCB, _ACCA
      OUT      022h, _ACCB
      POP      _ACCA

```

Left file: C:\Users\scart\Desktop\test_1280.asm Right file: C:\Users\scart\Desktop\test_2560.asm (continued)

```

        PUSH    _ACCA
        LDI     _ACCA, 30h
SYSTEM._L0017:
        DEC     _ACCA
        BRNE   SYSTEM._L0017
        POP     _ACCA
        ORI     _ACCB, 10h
        OUT    022h, _ACCB
        PUSH   _ACCA
        LDI     _ACCA, 30h
SYSTEM._L0018:
        DEC     _ACCA
        BRNE   SYSTEM._L0018
        POP     _ACCA
        IN     _ACCB, 022h
        ANDI   _ACCB, 0EFh
        OUT    022h, _ACCB
        PUSH   _ACCA
        LDI     _ACCA, 30h
SYSTEM._L0019:
        DEC     _ACCA
        BRNE   SYSTEM._L0019
        POP     _ACCA
        ANDI   _ACCA, 0Fh
        IN     _ACCB, 022h
        ANDI   _ACCB, 0F0h
        OR     _ACCB, _ACCA
        OUT    022h, _ACCB
        PUSH   _ACCA
        LDI     _ACCA, 30h
SYSTEM._L0020:
        DEC     _ACCA
        BRNE   SYSTEM._L0020
        POP     _ACCA
        ORI     _ACCB, 10h
        OUT    022h, _ACCB
        PUSH   _ACCA
        LDI     _ACCA, 30h

```

```

        PUSH    _ACCA
        LDI     _ACCA, 30h
SYSTEM._L0017:
        DEC     _ACCA
        BRNE   SYSTEM._L0017
        POP     _ACCA
        ORI     _ACCB, 10h
        OUT    022h, _ACCB
        PUSH   _ACCA
        LDI     _ACCA, 30h
SYSTEM._L0018:
        DEC     _ACCA
        BRNE   SYSTEM._L0018
        POP     _ACCA
        IN     _ACCB, 022h
        ANDI   _ACCB, 0EFh
        OUT    022h, _ACCB
        PUSH   _ACCA
        LDI     _ACCA, 30h
SYSTEM._L0019:
        DEC     _ACCA
        BRNE   SYSTEM._L0019
        POP     _ACCA
        ANDI   _ACCA, 0Fh
        IN     _ACCB, 022h
        ANDI   _ACCB, 0F0h
        OR     _ACCB, _ACCA
        OUT    022h, _ACCB
        PUSH   _ACCA
        LDI     _ACCA, 30h
SYSTEM._L0020:
        DEC     _ACCA
        BRNE   SYSTEM._L0020
        POP     _ACCA
        ORI     _ACCB, 10h
        OUT    022h, _ACCB
        PUSH   _ACCA
        LDI     _ACCA, 30h

```

Left file: C:\Users\scart\Desktop\test_1280.asm Right file: C:\Users\scart\Desktop\test_2560.asm (continued)

SYSTEM._L0021:

```

DEC      _ACCA
BRNE     SYSTEM._L0021
POP      _ACCA
IN       _ACCA, 022h
ANDI     _ACCA, 0EFh
OUT      022h, _ACCA
RET

```

SYSTEM._L0022:

```

ROL      _ACCA
DEC      _ACCAHI
BRNE     SYSTEM._L0022
RET

```

SYSTEM._L0024:

```

ROR      _ACCA
DEC      _ACCAHI
BRNE     SYSTEM._L0024
RET

```

SYSTEM.LCDWAIT:

```

LDI      _ACCLO, 00280h AND 0FFh
LDI      _ACCCHI, 00280h SHRB 8
SET
BLD      Flags, _WAITLCD
IN       _ACCA, 021h
ANDI     _ACCA, 0F0h
ORI      _ACCA, 030h
OUT      021h, _ACCA
IN       _ACCA, 022h
ANDI     _ACCA, 0EFh
ANDI     _ACCA, 09Fh
OUT      022h, _ACCA
PUSH     _ACCA
LDI      _ACCA, 30h

```

SYSTEM._L0029:

SYSTEM._L0021:

```

DEC      _ACCA
BRNE     SYSTEM._L0021
POP      _ACCA
IN       _ACCA, 022h
ANDI     _ACCA, 0EFh
OUT      022h, _ACCA
RET

```

SYSTEM._L0022:

```

ROL      _ACCA
DEC      _ACCAHI
BRNE     SYSTEM._L0022
RET

```

SYSTEM._L0024:

```

ROR      _ACCA
DEC      _ACCAHI
BRNE     SYSTEM._L0024
RET

```

SYSTEM.LCDWAIT:

```

LDI      _ACCLO, 00280h AND 0FFh
LDI      _ACCCHI, 00280h SHRB 8
SET
BLD      Flags, _WAITLCD
IN       _ACCA, 021h
ANDI     _ACCA, 0F0h
ORI      _ACCA, 030h
OUT      021h, _ACCA
IN       _ACCA, 022h
ANDI     _ACCA, 0EFh
ANDI     _ACCA, 09Fh
OUT      022h, _ACCA
PUSH     _ACCA
LDI      _ACCA, 30h

```

SYSTEM._L0029:

Left file: C:\Users\scart\Desktop\test_1280.asm Right file: C:\Users\scart\Desktop\test_2560.asm (continued)

```

DEC      _ACCA
BRNE     SYSTEM._L0029
POP      _ACCA
ORI      _ACCA, 040h
OUT      022h, _ACCA

```

SYSTEM.LCDINPX:

```

PUSH     _ACCA
LDI      _ACCA, 30h

```

SYSTEM._L0030:

```

DEC      _ACCA
BRNE     SYSTEM._L0030
POP      _ACCA
IN       _ACCA, 022h
ORI      _ACCA, 10h
OUT      022h, _ACCA
PUSH     _ACCA
LDI      _ACCA, 30h

```

SYSTEM._L0031:

```

DEC      _ACCA
BRNE     SYSTEM._L0031
POP      _ACCA
IN       _ACCB, 020h
SWAP     _ACCB
ANDI     _ACCB, 0F0H
IN       _ACCA, 022h
ANDI     _ACCA, 0EFh
OUT      022h, _ACCA
PUSH     _ACCA
LDI      _ACCA, 30h

```

SYSTEM._L0032:

```

DEC      _ACCA
BRNE     SYSTEM._L0032
POP      _ACCA
IN       _ACCA, 022h
ORI      _ACCA, 10h
OUT      022h, _ACCA
PUSH     _ACCA
LDI      _ACCA, 30h

```

```

DEC      _ACCA
BRNE     SYSTEM._L0029
POP      _ACCA
ORI      _ACCA, 040h
OUT      022h, _ACCA

```

SYSTEM.LCDINPX:

```

PUSH     _ACCA
LDI      _ACCA, 30h

```

SYSTEM._L0030:

```

DEC      _ACCA
BRNE     SYSTEM._L0030
POP      _ACCA
IN       _ACCA, 022h
ORI      _ACCA, 10h
OUT      022h, _ACCA
PUSH     _ACCA
LDI      _ACCA, 30h

```

SYSTEM._L0031:

```

DEC      _ACCA
BRNE     SYSTEM._L0031
POP      _ACCA
IN       _ACCB, 020h
SWAP     _ACCB
ANDI     _ACCB, 0F0H
IN       _ACCA, 022h
ANDI     _ACCA, 0EFh
OUT      022h, _ACCA
PUSH     _ACCA
LDI      _ACCA, 30h

```

SYSTEM._L0032:

```

DEC      _ACCA
BRNE     SYSTEM._L0032
POP      _ACCA
IN       _ACCA, 022h
ORI      _ACCA, 10h
OUT      022h, _ACCA
PUSH     _ACCA
LDI      _ACCA, 30h

```

Left file: C:\Users\scart\Desktop\test_1280.asm Right file: C:\Users\scart\Desktop\test_2560.asm (continued)

SYSTEM._L0033:

```

DEC      _ACCA
BRNE     SYSTEM._L0033
POP      _ACCA
IN       _ACCA, 020h
ANDI     _ACCA, 0FH
OR       _ACCA, _ACCB
IN       _ACCB, 022h
ANDI     _ACCB, 0EFh
ANDI     _ACCB, 0F0h
OUT      022h, _ACCB
BST      Flags, _WAITLCD
BRTS     SYSTEM._L0026
.DEB     LCDINP
RET

```

SYSTEM._L0026:

```

SBIW     _ACCCLO, 1
BREQ     SYSTEM._L0027
ROL      _ACCA
.BRANCH  1, SYSTEM.LCDINPX
BRCS     SYSTEM.LCDINPX
RET

```

SYSTEM._L0027:

```

SER      _ACCA
RET

```

SYSTEM._L0043:

```

PUSH     _ACCA
LDI      _ACCA, 20h
RCALL    SYSTEM.LCDOUT
POP      _ACCA
DEC      _ACCA

```

SYSTEM._L0033:

```

DEC      _ACCA
BRNE     SYSTEM._L0033
POP      _ACCA
IN       _ACCA, 020h
ANDI     _ACCA, 0FH
OR       _ACCA, _ACCB
IN       _ACCB, 022h
ANDI     _ACCB, 0EFh
ANDI     _ACCB, 0F0h
OUT      022h, _ACCB
BST      Flags, _WAITLCD
BRTS     SYSTEM._L0026
.DEB     LCDINP
RET

```

SYSTEM._L0026:

```

SBIW     _ACCCLO, 1
BREQ     SYSTEM._L0027
ROL      _ACCA
.BRANCH  1, SYSTEM.LCDINPX
BRCS     SYSTEM.LCDINPX
RET

```

SYSTEM._L0027:

```

SER      _ACCA
RET

```

SYSTEM._L0043:

```

PUSH     _ACCA
LDI      _ACCA, 20h
RCALL    SYSTEM.LCDOUT
POP      _ACCA
DEC      _ACCA

```

Left file: C:\Users\scart\Desktop\test_1280.asm Right file: C:\Users\scart\Desktop\test_2560.asm (continued)

```

BRNE     SYSTEM._L0043
POP      _ACCA
RCALL    SYSTEM.LCDCTRL
RET

SYSTEM.MDELAY:
        .DEB     DEBdelay
MOVW     _ACCDLO, _ACCB
CLR      _ACCA
CP       _ACCDLO, _ACCA
CPC     _ACCDHI, _ACCA
BREQ     SYSTEM.MDELAY3

SYSTEM.MDELAY1:
        LDI     _ACCB, 00C7Ah AND 0FFh
        LDI     _ACCA, 00C7Ah SHRB 8

SYSTEM.MDELAY2:
        SUBI    _ACCB, 001h
        SBCI    _ACCA, 000h
        NOP
        BRNE    SYSTEM.MDELAY2
        SUBI    _ACCDLO, 001h
        SBCI    _ACCDHI, 000h
        BRNE    SYSTEM.MDELAY1

SYSTEM.MDELAY3:
        RET

SYSTEM.UDELAY1:
        LDI     _ACCB, 00026h AND 0FFh

SYSTEM.UDELAY2:
        DEC     _ACCB
        NOP
        BRNE    SYSTEM.UDELAY2
        DEC     _ACCA
        BRNE    SYSTEM.UDELAY1
        RET

```

```

BRNE     SYSTEM._L0043
POP      _ACCA
RCALL    SYSTEM.LCDCTRL
RET

SYSTEM.MDELAY:
        .DEB     DEBdelay
MOVW     _ACCDLO, _ACCB
CLR      _ACCA
CP       _ACCDLO, _ACCA
CPC     _ACCDHI, _ACCA
BREQ     SYSTEM.MDELAY3

SYSTEM.MDELAY1:
        LDI     _ACCB, 00C7Ah AND 0FFh
        LDI     _ACCA, 00C7Ah SHRB 8

SYSTEM.MDELAY2:
        SUBI    _ACCB, 001h
        SBCI    _ACCA, 000h
        NOP
        BRNE    SYSTEM.MDELAY2
        SUBI    _ACCDLO, 001h
        SBCI    _ACCDHI, 000h
        BRNE    SYSTEM.MDELAY1

SYSTEM.MDELAY3:
        RET

SYSTEM.UDELAY1:
        LDI     _ACCB, 00026h AND 0FFh

SYSTEM.UDELAY2:
        DEC     _ACCB
        NOP
        BRNE    SYSTEM.UDELAY2
        DEC     _ACCA
        BRNE    SYSTEM.UDELAY1
        RET

```

Left file: C:\Users\scart\Desktop\test_1280.asm Right file: C:\Users\scart\Desktop\test_2560.asm (continued)

SYSTEM._L0046:	SUBI _ACCALO, 001h SBCI _ACCAHI, 000h BRCS SYSTEM._L0047 LD _ACCA, Z+ ST X+, _ACCA RJMP SYSTEM._L0046		SYSTEM._L0046:	SUBI _ACCALO, 001h SBCI _ACCAHI, 000h BRCS SYSTEM._L0047 LD _ACCA, Z+ ST X+, _ACCA RJMP SYSTEM._L0046
SYSTEM._L0047:	RET		SYSTEM._L0047:	RET
SYSTEM.StrConst2Str:			SYSTEM.StrConst2Str:	
	LDI _ACCBHI, 01h	<>		LDI _ACCBHI, 03h
	OUT RAMPZ, _ACCBHI ELPM _ACCBHI, Z+ TST _ACCBHI BREQ SYSTEM._L0049	=		OUT RAMPZ, _ACCBHI ELPM _ACCBHI, Z+ TST _ACCBHI BREQ SYSTEM._L0049
SYSTEM._L0048:			SYSTEM._L0048:	
	LDI _ACCA, 01h	<>		LDI _ACCA, 03h
	OUT RAMPZ, _ACCA ELPM _ACCA, Z+ RCALL SYSTEM.Char2Str DEC _ACCBHI BRNE SYSTEM._L0048	=		OUT RAMPZ, _ACCA ELPM _ACCA, Z+ RCALL SYSTEM.Char2Str DEC _ACCBHI BRNE SYSTEM._L0048
SYSTEM._L0049:	RET		SYSTEM._L0049:	RET
SYSTEM.Char2Str:			SYSTEM.Char2Str:	
	PUSH _ACCCLO PUSH _ACCCHI BST Flags, _DEVICE BRTS SYSTEM._L0053 PUSH _ACCA LDD _ACCCLO, Y+001h LDD _ACCCHI, Y+002h LDD _ACCA, Y+000h TST _ACCA			PUSH _ACCCLO PUSH _ACCCHI BST Flags, _DEVICE BRTS SYSTEM._L0053 PUSH _ACCA LDD _ACCCLO, Y+001h LDD _ACCCHI, Y+002h LDD _ACCA, Y+000h TST _ACCA

Left file: C:\Users\scart\Desktop\test_1280.asm Right file: C:\Users\scart\Desktop\test_2560.asm (continued)

BRNE SYSTEM._L0050		BRNE SYSTEM._L0050
POP _ACCA		POP _ACCA
SET		SET
BLD Flags, _ERRFLAG		BLD Flags, _ERRFLAG
POP _ACCCHI		POP _ACCCHI
POP _ACCLO		POP _ACCLO
RET		RET
SYSTEM._L0050:		SYSTEM._L0050:
DEC _ACCA		DEC _ACCA
STD Y+000h, _ACCA		STD Y+000h, _ACCA
POP _ACCA		POP _ACCA
ST Z+, _ACCA		ST Z+, _ACCA
STD Y+002h, _ACCCHI		STD Y+002h, _ACCCHI
STD Y+001h, _ACCLO		STD Y+001h, _ACCLO
POP _ACCCHI		POP _ACCCHI
POP _ACCLO		POP _ACCLO
RET		RET
SYSTEM._L0053:		SYSTEM._L0053:
LDD _ACCLO, Y+000h		LDD _ACCLO, Y+000h
	<>	OUT EIND, _ACCLO
		LDD _ACCLO, Y+001h
LDD _ACCCHI, Y+001h		LDD _ACCCHI, Y+002h
PUSH _ACCA	=	PUSH _ACCA
PUSH _ACCB		PUSH _ACCB
PUSH _ACCALO		PUSH _ACCALO
PUSH _ACCAHI		PUSH _ACCAHI
PUSH _ACCBLO		PUSH _ACCBLO
PUSH _ACCBHI		PUSH _ACCBHI
PUSH _ACCELO		PUSH _ACCELO
PUSH _ACCEHI		PUSH _ACCEHI
PUSH _ACCDLO		PUSH _ACCDLO
PUSH _ACCDHI		PUSH _ACCDHI
PUSH _ACCFLO		PUSH _ACCFLO
PUSH _ACCFHI		PUSH _ACCFHI
ICALL	<>	EICALL
POP _ACCFHI	=	POP _ACCFHI
POP _ACCFLO		POP _ACCFLO
POP _ACCDHI		POP _ACCDHI

Left file: C:\Users\scart\Desktop\test_1280.asm Right file: C:\Users\scart\Desktop\test_2560.asm (continued)

```

POP      _ACCDLO
POP      _ACCEHI
POP      _ACCELO
POP      _ACCBHI
POP      _ACCBLO
POP      _ACCAHI
POP      _ACCALO
POP      _ACCB
POP      _ACCA
POP      _ACCCHI
POP      _ACCLO
RET

```

SYSTEM.DefIntErr:

RETI

```

POP      _ACCDLO
POP      _ACCEHI
POP      _ACCELO
POP      _ACCBHI
POP      _ACCBLO
POP      _ACCAHI
POP      _ACCALO
POP      _ACCB
POP      _ACCA
POP      _ACCCHI
POP      _ACCLO
RET

```

SYSTEM.DefIntErr:

RETI

.ROMCONST 10000h

<>

.ROMCONST 30000h

\$St_String1:

```

; ===== String-constant tables =====
.BYTE    3
.ASCII   "ABC"

; ===== Fixed addr String-constant ta
; ===== fixed addr array-constant tab
; ++++++
; Reset and Interrupt vectors
; ++++++

```

SYSTEM.ENDCODE:

```

.ENDCODE
.ORG     000000h, VECTTAB
.VECTTAB

```

\$St_String1:

```

; ===== String-constant tables =====
.BYTE    3
.ASCII   "ABC"

; ===== Fixed addr String-constant ta
; ===== fixed addr array-constant tab
; ++++++
; Reset and Interrupt vectors
; ++++++

```

SYSTEM.ENDCODE:

```

.ENDCODE
.ORG     000000h, VECTTAB
.VECTTAB

```


Left file: C:\Users\scart\Desktop\test_1280.asm Right file: C:\Users\scart\Desktop\test_2560.asm (continued)

<pre> ; from = 00010h ; upto = 0001Fh ; ; Stackframe at = ...002FFh </pre>		<pre> ; from = 00010h ; upto = 0001Fh ; ; Stackframe at = ...002FFh </pre>
<pre> ; ===== Current top of User Vars in Data is </pre>	<>	<pre> ; ===== Current top of User Vars in Data is </pre>
<pre> ; ===== Current top of User Vars in IData is </pre>	=	<pre> ; ===== Current top of User Vars in IData is </pre>
<pre> ; ===== EEprom currently not used ===== </pre>		<pre> ; ===== EEprom currently not used ===== </pre>
<pre> ; ===== Imported Library Routines ===== </pre>		<pre> ; ===== Imported Library Routines ===== </pre>
<pre> ; Pascal Statements : 3 </pre>		<pre> ; Pascal Statements : 3 </pre>
<pre> ; Assembler Lines : 2667 </pre>	<>	<pre> ; Assembler Lines : 2703 </pre>
<pre> ; Optimizer removed : 0 lines = 0Bytes </pre>	=	<pre> ; Optimizer removed : 0 lines = 0Bytes </pre>
<pre> ; >> real SysTick (exact): 9.984 msec << </pre>		<pre> ; >> real SysTick (exact): 9.984 msec << </pre>
<pre> ; Merlin Optimiser Version 3.4.2.1 saved 316 ; Original size was 1298 so % saved = 23% </pre>	<>	<pre> ; Merlin Optimiser Version 3.4.2.1 saved 324 ; Original size was 1332 so % saved = 24% </pre>
<pre> ; Analysis Time (hh:mm:ss) : 00:00:00 </pre>	=	<pre> ; Analysis Time (hh:mm:ss) : 00:00:00 </pre>
<pre> ; Optimisation Time (hh:mm:ss) : 00:00:00 </pre>		<pre> ; Optimisation Time (hh:mm:ss) : 00:00:00 </pre>
<pre> ; Total Time (hh:mm:ss) : 00:00:00 </pre>		<pre> ; Total Time (hh:mm:ss) : 00:00:00 </pre>