Freescale Semiconductor, Inc.
Release Notes

KSDK 1.3.0 Eclipse Update Release Notes

1 Overview

To use the Kinetis SDK with Eclipse and Processor Expert, this updated needs to be installed into Eclipse (e.g. Kinetis Design Studio or Processor Expert for Kinetis).

Otherwise both 'New Project Wizard' and Processor Expert will not know about the devices present and supported in the Kinetis SDK.

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2 Applicable Environments

- Applicable on any Eclipse based IDE with Processor Expert for Kinetis installed.

3 Installation

- Launch Eclipse
- Choose the menu Help > Install New Software…
- Press the Add… button in the dialog
- In the next dialog, chose the 'Archive…' button and browse for the KSDK_1.3.0_Eclipse_Update.zip installation package file
- Then go through the guided update process
- At the end, you are asked to restart Eclipse IDE

4 Product Content

4.1 Supported Processors

- MK02FN128xxx10 - MK02FN128VFM10, MK02FN128VLF10, MK02FN128VLH10
- MK02FN64xxx10 - MK02FN64VFM10, MK02FN64VLF10, MK02FN64VLH10
- MK10DN512xxx10 - MK10DN512VLK10, MK10DN512VLL10, MK10DN512VLQ10, MK10DN512VMC10, MK10DN512VMD10
- MK10DX128xxx10 - MK10DX128VLQ10, MK10DX128VMD10
- MK10DX256xxx10 - MK10DX256VLQ10, MK10DX256VMD10
- MK11DN512Axxx5 - MK11DN512AVLK5, MK11DN512AVMC5
- MK11DX128Axxx5 - MK11DX128AVLK5, MK11DX128AVMC5
- MK11DX256Axxx5 - MK11DX256AVLK5, MK11DX256AVMC5
- MK20DN512xxx10 - MK20DN512VLK10, MK20DN512VLL10, MK20DN512VLQ10, MK20DN512VMC10, MK20DN512VMD10
- MK20DX128xxx10 - MK20DX128VLQ10, MK20DX128VMD10
- MK20DX256xxx10 - MK20DX256VLK10, MK20DX256VLL10, MK20DX256VLQ10, MK20DX256VMC10, MK20DX256VMD10
- MK21DN512Axxx5 - MK21DN512AVLK5, MK21DN512AVMC5
- MK21DX128Axxx5 - MK21DX128AVLK5, MK21DX128AVMC5
- MK21DX256Axxx5 - MK21DX256AVLK5, MK21DX256AVMC5

- MK21FN1M0Axxx12 - MK21FN1M0AVLQ12, MK21FN1M0AVMC12, MK21FN1M0AVMD12
- MK21FX512Axxx12 - MK21FX512AVLQ12, MK21FX512AVMC12, MK21FX512AVMD12
- MK22FN128xxx12 - MK22FN128CAH12
- MK22FN128xxx10 - MK22FN128VDC10, MK22FN128VLH10, MK22FN128VLL10, MK22FN128VMP10
- MK22FN1M0Axxx12 - MK22FN1M0AVLH12, MK22FN1M0AVLK12, MK22FN1M0AVLL12, MK22FN1M0AVLQ12, MK22FN1M0AVMC12, MK22FN1M0AVMD12
- MK22FN256xxx12 - MK22FN256CAH12, MK22FN256VDC12, MK22FN256VLH12, MK22FN256VLL12, MK22FN256VMP12
- MK22FN512xxx12 - MK22FN512CAP12, MK22FN512VDC12, MK22FN512VLH12, MK22FN512VLL12, MK22FN512VMP12
- MK22FX512Axxx12 - MK22FX512AVLH12, MK22FX512AVLK12, MK22FX512AVLL12, MK22FX512AVLQ12, MK22FX512AVMC12, MK22FX512AVMD12
- MK24FN1M0xxx12 - MK24FN1M0VDC12, MK24FN1M0VLL12, MK24FN1M0VLQ12
- MK24FN256xxx12 - MK24FN256VDC12
- MK26FN2M0xxx18 - MK26FN2M0CAC18, MK26FN2M0VLQ18, MK26FN2M0VMD18, MK26FN2M0VMI18
- MK30DN512xxx10 - MK30DN512VLK10, MK30DN512VLL10, MK30DN512VLQ10, MK30DN512VMC10, MK30DN512VMD10
- MK30DX128xxx10 - MK30DX128VLQ10, MK30DX128VMD10
- MK30DX256xxx10 - MK30DX256VLQ10, MK30DX256VMD10
- MK40DN512xxx10 - MK40DN512VLK10, MK40DN512VLL10, MK40DN512VLQ10, MK40DN512VMC10, MK40DN512VMD10
- MK40DX128xxx10 - MK40DX128VLQ10, MK40DX128VMD10
- MK40DX256xxx10 - MK40DX256VLQ10, MK40DX256VMD10
- MK50DN512xxx10 - MK50DN512CLL10, MK50DN512CLQ10, MK50DN512CMC10, MK50DN512CMD10
- MK50DX256xxx10 - MK50DX256CLK10, MK50DX256CLL10, MK50DX256CMC10, MK50DX256CMD10
- MK51DN256xxx10 - MK51DN256CLQ10, MK51DN256CMD10
- MK51DN512xxx10 - MK51DN512CLL10, MK51DN512CLQ10, MK51DN512CMC10, MK51DN512CMD10
- MK51DX256xxx10 - MK51DX256CLK10, MK51DX256CLL10, MK51DX256CMC10
- MK52DN512xxx10 - MK52DN512CLQ10, MK52DN512CMD10
- MK53DN512xxx10 - MK53DN512CLQ10, MK53DN512CMD10
- MK53DX256xxx10 - MK53DX256CLQ10, MK53DX256CMD10
- MK60DN256xxx10 - MK60DN256VLL10, MK60DN256VLQ10, MK60DN256VMC10, MK60DN256VMD10

- MK60DN512xxx10 - MK60DN512VLL10, MK60DN512VLQ10, MK60DN512VMC10, MK60DN512VMD10
- MK60DX256xxx10 - MK60DX256VLL10, MK60DX256VLQ10, MK60DX256VMC10, MK60DX256VMD10
- MK63FN1M0xxx12 - MK63FN1M0VLQ12, MK63FN1M0VMD12
- MK64FN1M0xxx12 - MK64FN1M0VDC12, MK64FN1M0VLL12, MK64FN1M0VLQ12, MK64FN1M0VMD12
- MK64FX512xxx12 - MK64FX512VDC12, MK64FX512VLL12, MK64FX512VLQ12, MK64FX512VMD12
- MK65FN2M0xxx18 - MK65FN2M0CAC18, MK65FN2M0VMI18
- MK65FX1M0xxx18 - MK65FX1M0CAC18, MK65FX1M0VMI18
- MK66FN2M0xxx18 - MK66FN2M0VLQ18, MK66FN2M0VMD18
- MK66FX1M0xxx18 - MK66FX1M0VLQ18, MK66FX1M0VMD18
- MK80FN256xxx15 - MK80FN256CAx15, MK80FN256VDC15, MK80FN256VLL15, MK80FN256VLQ15
- MKL02Z16xxx4 - MKL02Z16VFG4, MKL02Z16VFK4, MKL02Z16VFM4
- MKL02Z32xxx4 - MKL02Z32CAF4, MKL02Z32VFG4, MKL02Z32VFK4, MKL02Z32VFM4
- MKL02Z8xxx4 - MKL02Z8VFG4
- MKL03Z16xxx4 - MKL03Z16VFG4, MKL03Z16VFK4
- MKL03Z32xxx4 - MKL03Z32CAF4, MKL03Z32VFG4, MKL03Z32VFK4
- MKL03Z8xxx4 - MKL03Z8VFG4, MKL03Z8VFK4
- MKL13Z32xxx4 - MKL13Z32VFM4, MKL13Z32VFT4, MKL13Z32VLH4, MKL13Z32VLK4, MKL13Z32VMP4
- MKL13Z64xxx4 - MKL13Z64VFM4, MKL13Z64VFT4, MKL13Z64VLH4, MKL13Z64VLK4, MKL13Z64VMP4
- MKL14Z32xxx4 - MKL14Z32VFM4, MKL14Z32VFT4, MKL14Z32VLH4, MKL14Z32VLK4
- MKL14Z64xxx4 - MKL14Z64VFM4, MKL14Z64VFT4, MKL14Z64VLH4, MKL14Z64VLK4
- MKL15Z128xxx4 - MKL15Z128CAD4, MKL15Z128VFM4, MKL15Z128VFT4, MKL15Z128VLH4, MKL15Z128VLK4
- MKL15Z32xxx4 - MKL15Z32VFM4, MKL15Z32VFT4, MKL15Z32VLH4, MKL15Z32VLK4
- MKL15Z64xxx4 - MKL15Z64VFM4, MKL15Z64VFT4, MKL15Z64VLH4, MKL15Z64VLK4
- MKL16Z128xxx4 - MKL16Z128VFM4, MKL16Z128VFT4, MKL16Z128VLH4
- MKL16Z256xxx4 - MKL16Z256VLH4, MKL16Z256VMP4
- MKL16Z32xxx4 - MKL16Z32VFM4, MKL16Z32VFT4, MKL16Z32VLH4
- MKL16Z64xxx4 - MKL16Z64VFM4, MKL16Z64VFT4, MKL16Z64VLH4
- MKL17Z128xxx4 - MKL17Z128VFM4, MKL17Z128VFT4, MKL17Z128VLH4, MKL17Z128VMP4
- MKL17Z256xxx4 - MKL17Z256VFM4, MKL17Z256VFT4, MKL17Z256VLH4, MKL17Z256VMP4

- MKL17Z32xxx4 - MKL17Z32VDA4, MKL17Z32VFM4, MKL17Z32VFT4, MKL17Z32VLH4, MKL17Z32VMP4
- MKL17Z64xxx4 - MKL17Z64VDA4, MKL17Z64VFM4, MKL17Z64VFT4, MKL17Z64VLH4, MKL17Z64VMP4
- MKL24Z32xxx4 - MKL24Z32VFM4, MKL24Z32VFT4, MKL24Z32VLH4, MKL24Z32VLK4
- MKL24Z64xxx4 - MKL24Z64VFM4, MKL24Z64VFT4, MKL24Z64VLH4, MKL24Z64VLK4
- MKL25Z128xxx4 - MKL25Z128VFM4, MKL25Z128VFT4, MKL25Z128VLH4, MKL25Z128VLK4
- MKL25Z32xxx4 - MKL25Z32VFM4, MKL25Z32VFT4, MKL25Z32VLH4, MKL25Z32VLK4
- MKL25Z64xxx4 - MKL25Z64VFM4, MKL25Z64VFT4, MKL25Z64VLH4, MKL25Z64VLK4
- MKL26Z128xxx4 - MKL26Z128CAL4, MKL26Z128VFM4, MKL26Z128VFT4, MKL26Z128VLH4, MKL26Z128VLL4, MKL26Z128VMC4
- MKL26Z256xxx4 - MKL26Z256VLH4, MKL26Z256VLL4, MKL26Z256VMC4, MKL26Z256VMP4
- MKL26Z32xxx4 - MKL26Z32VFM4, MKL26Z32VFT4, MKL26Z32VLH4
- MKL26Z64xxx4 - MKL26Z64VFM4, MKL26Z64VFT4, MKL26Z64VLH4
- MKL27Z128xxx4 - MKL27Z128VFM4, MKL27Z128VFT4, MKL27Z128VLH4, MKL27Z128VMP4
- MKL27Z256xxx4 - MKL27Z256VFM4, MKL27Z256VFT4, MKL27Z256VLH4, MKL27Z256VMP4
- MKL27Z32xxx4 - MKL27Z32VDA4, MKL27Z32VFM4, MKL27Z32VFT4, MKL27Z32VLH4, MKL27Z32VMP4
- MKL27Z64xxx4 - MKL27Z64VDA4, MKL27Z64VFM4, MKL27Z64VFT4, MKL27Z64VLH4, MKL27Z64VMP4
- MKL33Z128xxx4 - MKL33Z128VLH4, MKL33Z128VMP4
- MKL33Z256xxx4 - MKL33Z256VLH4, MKL33Z256VMP4
- MKL33Z32xxx4 - MKL33Z32VFT4, MKL33Z32VLH4, MKL33Z32VLK4, MKL33Z32VMP4
- MKL33Z64xxx4 - MKL33Z64VFT4, MKL33Z64VLH4, MKL33Z64VLK4, MKL33Z64VMP4
- MKL34Z64xxx4 - MKL34Z64VLH4, MKL34Z64VLL4
- MKL36Z128xxx4 - MKL36Z128VLH4, MKL36Z128VLL4, MKL36Z128VMC4
- MKL36Z256xxx4 - MKL36Z256VLH4, MKL36Z256VLL4, MKL36Z256VMC4, MKL36Z256VMP4
- MKL36Z64xxx4 - MKL36Z64VLH4, MKL36Z64VLL4
- MKL43Z128xxx4 - MKL43Z128VLH4, MKL43Z128VMP4
- MKL43Z256xxx4 - MKL43Z256VLH4, MKL43Z256VMP4
- MKL46Z128xxx4 - MKL46Z128VLH4, MKL46Z128VLL4, MKL46Z128VMC4
- MKL46Z256xxx4 - MKL46Z256VLH4, MKL46Z256VLL4, MKL46Z256VMC4, MKL46Z256VMP4
- MKM34Z256xxx7 - MKM34Z256VLL7, MKM34Z256VLQ7
- MKV10Z128xxx7 - MKV10Z128VFM7, MKV10Z128VLC7, MKV10Z128VLF7, MKV10Z128VLH7
- MKV10Z16xxx7 - MKV10Z16VFM7, MKV10Z16VLC7, MKV10Z16VLF7
- MKV10Z32xxx7 - MKV10Z32VFM7, MKV10Z32VLC7, MKV10Z32VLF7

- MKV10Z64xxx7 - MKV10Z64VFM7, MKV10Z64VLC7, MKV10Z64VLF7, MKV10Z64VLH7
- MKV11Z128xxx7 - MKV11Z128VFM7, MKV11Z128VLC7, MKV11Z128VLF7, MKV11Z128VLH7
- MKV11Z64xxx7 - MKV11Z64VFM7, MKV11Z64VLC7, MKV11Z64VLF7, MKV11Z64VLH7
- MKV30F128xxx10 - MKV30F128VFM10, MKV30F128VLF10, MKV30F128VLH10
- MKV30F64xxx10 - MKV30F64VFM10, MKV30F64VLF10, MKV30F64VLH10
- MKV31F128xxx10 - MKV31F128VLH10, MKV31F128VLL10
- MKV31F256xxx12 - MKV31F256VLH12, MKV31F256VLL12
- MKV31F512xxx12 - MKV31F512VLH12, MKV31F512VLL12
- MKW01Z128xxx4 - MKW01Z128CHN4
- MKW20Z160xxx4 - MKW20Z160VHT4
- MKW21D256xxx5 - MKW21D256VHA5
- MKW21D512xxx5 - MKW21D512VHA5
- MKW22D512xxx5 - MKW22D512VHA5
- MKW24D512xxx5 - MKW24D512VHA5
- MKW30Z160xxx4 - MKW30Z160VHM4
- MKW40Z160xxx4 - MKW40Z160VHT4

4.2 Boards

- FRDM-K22F
- FRDM-K64F
- FRDM-KL02Z
- FRDM-KL03Z
- FRDM-KL25Z
- FRDM-KL26Z
- FRDM-KL27Z
- FRDM-KL43Z
- FRDM-KL46Z
- FRDM-KV10Z
- FRDM-KV31F
- FRDM-KW24
- FRDM-KW40Z
- MRB-KW019030JA
- MRB-KW019032EU
- MRB-KW019032NA
- TWR-K21D50M
- TWR-K21F120M
- TWR-K22F120M
- TWR-K24F120M
- TWR-K60D100M
- TWR-K64F120M
- TWR-K65F180M
- TWR-K80F150M
- TWR-KL43Z48M
- TWR-KM34Z75M
- TWR-KV10Z32
- TWR-KV11Z75M
- TWR-KV31F120M
- TWR-KW24D512
- USB-KW24D512
- USB-KW40Z-K22F
- USB-KW40Z

4.3 Peripheral Initialization Components

- PinSettings
- Init_ADC_VAR0
- Init_ADC_VAR2
- Init_AFE_VAR0
- Init_AIPS0_VAR0
- Init_AIPS1_VAR0
- Init_AIPS_VAR1
- Init_AOI_VAR0
- Init_AXBS_VAR0
- Init_CAN_VAR0
- Init_CMT_VAR0
- Init_COP_KINETIS
- Init_CRC_VAR0
- Init_DAC_VAR0
- Init_DMAMUX_VAR0
- Init_DMA_VAR0
- Init_EMV_SIM_VAR0
- Init_ENC_VAR0
- Init_ENET_VAR0
- Init_EWM_VAR0
- Init_FB_VAR0
- Init_FLEXIO_VAR0
- Init_FMC_VAR1
- Init_FTFL_VAR0
- Init_FTM_VAR0
- Init_GPIO_VAR0
- Init_HSCMP_VAR0
- Init_I2C_VAR0
- Init_I2S_VAR1
- Init_LLWU_VAR0
- Init_LPTMR_VAR0
- Init_MCM_VAR2
- Init_MCM_VAR3

- Init_MMDVSQ_VAR0
- Init_MPU_VAR0
- Init_NVIC_VAR0
- Init_NVIC_VAR1
- Init_PDB_VAR0
- Init_PIT_VAR0
- Init_PMC_VAR0
- Init_PORT_VAR0
- Init_QuadSPI_VAR0
- Init_RCM_VAR0
- Init_RNG_VAR1
- Init_RTC_VAR3
- Init_SCB_VAR0
- Init_SDHC_VAR0
- Init_SDRAM_VAR0
- Init_SIM_VAR2
- Init_SIM_VAR3
- Init_SIM_VAR5
- Init_SLCD_VAR0
- Init_SMC_VAR0
- Init_SPI_VAR0
- Init_SPI_VAR1
- Init_SRTC_VAR0
- Init_SysTick_VAR0
- Init_TMR_VAR0
- Init_TPM_VAR0
- Init_TSI_VAR2
- Init_TSI_VAR3
- Init_UART_VAR0
- Init_USBDCD_VAR0
- Init_USB_OTG_HS_VAR0
- Init_USB_OTG_VAR0
- Init_USB_UTMI_PHY_VAR0
- Init_VREF_VAR0

- Init_WDOG_VAR0
- Init_XBAR_VAR2
- Init_eDMA_VAR0
- Init_eFlexPWM_VAR0

4.4 Kinetis SDK Peripheral Driver Components

- fsl_adc16
- fsl_afe
- fsl_aoi
- fsl_cmp
- fsl_cop
- fsl_crc
- fsl_cadc
- fsl_dac
- fsl_dma
- fsl_dspi
- fsl_edma
- fsl_enc
- fsl_enet
- fsl_ewm
- fsl_flexbus
- fsl_flexcan
- fsl_flexio
- fsl_ftm
- fsl_gpio
- fsl_i2c
- fsl_irtc
- fsl_lmem_cache
- fsl_lpsci
- fsl_lptmr
- fsl_lpuart
- fsl_mmau
- fsl_mpu
- fsl_pdb

- fsl_pit
- fsl_pwm
- fsl_quadtmr
- fsl_rnga
- fsl_rtc
- fsl_sai
- fsl_sdhc
- fsl_slcd
- fsl_spi
- fsl_tpm
- fsl_tsi
- fsl_uart
- fsl_vref
- fsl_wdog
- fsl_xbar
- fsl_power_manager
- fsl_clock_manager
- fsl_hwtimer
- fsl_interrupt_manager
- fsl_os_abstraction

4.5 Kinetis SDK HAL Components

- fsl_adc16_hal
- fsl_afe_hal
- fsl_aoi_hal
- fsl_cmp_hal
- fsl_cop_hal
- fsl_crc_hal
- fsl_cadc_hal
- fsl_dac_hal
- fsl_dma_hal
- fsl_dmamux_hal
- fsl_dspi_hal
- fsl_edma_hal

- fsl_enc_hal
- fsl_enet_hal
- fsl_ewm_hal
- fsl_flexbus_hal
- fsl_flexcan_hal
- fsl_flexio_hal
- fsl_ftm_hal
- fsl_gpio_hal
- fsl_i2c_hal
- fsl_irtc_hal
- fsl_llwu_hal
- fsl_lmem_cache_hal
- fsl_lpsci_hal
- fsl_lptmr_hal
- fsl_lpuart_hal
- fsl_mcg_hal
- fsl_mcglite_hal
- fsl_mmdvsq_hal
- fsl_mmau_hal
- fsl_mpu_hal
- fsl_osc_hal
- fsl_pdb_hal
- fsl_pit_hal
- fsl_pmc_hal
- fsl_port_hal
- fsl_pwm_hal
- fsl_quadtmr_hal
- fsl_rcm_hal
- fsl_rnga_hal
- fsl_rtc_hal
- fsl_sai_hal
- fsl_sdhc_hal
- fsl_sim_hal
- fsl_slcd_hal

- fsl_smc_hal
- fsl_spi_hal
- fsl_tpm_hal
- fsl_tsi_hal
- fsl_uart_hal
- fsl_vref_hal
- fsl_wdog_hal
- fsl_xbar_hal

4.6 Other Components

- fsl_flash
- fsl_sdcard
- fsl_usb_descriptors
- fsl_usb_device_hid_class
- fsl_usb_device_msd_class
- fsl_usb_framework
- fsl_usb_khci_hal
- fsl_usb_ehci_hal
- fsl_debug_console

4.7 Operating system

- OS_Task
- FreeRTOS
- MQX_KSDK
- ucOSII
- ucOSIII

5 Known Problems and Limitations

- PinSettings and ClockManager are required for SDK projects
- USB stack integration - fsl_usb_framework does not support OTG mode. Only HID and MSD Class components are supported now.
- PEXMCU-1579 - Problem with ISR sharing between SDK components. Some components e.g. fsl_pit,, fsl_wdog and fsl_ewm shares one IRQ. When both components are added into project, error occurs because both components allocates same ISR name in Events tab. User shall disable code generation of ISR in other components and generate ISR only by one component. E.g. disable code generation in Events tab in fsl_ewm and generate ISR only by fsl_wdog. Another problem occurs between fsl_flexio and fsl_uart because flexio and UART2 shares one ISR. fsl_uart cannot allocate ISR properly and generates ISR into module file. fsl_flexio allocates ISR and generates it as event into Events file. In this case no error are shown but some error should be shown because ISR is generated into two files.
- PEXMCU-1616 - When is no user requirement on pin in PinSettings and also in component - no routing code is generated

  Workaround: Select pin either in component or in PinSettings (Automatic value cannot be on both places)
- PEXMCU-3312 - fsl_sdcard - properties of an inherited component are not transferred after you switch SDK version from KSDK 1.2.0 to KSDK 1.3.0.
- PEXMCU-3630 - fsl_debug_console - device property of inherited component should be selected manually after project switch from KSDK 1.2.0 to KSDK 1.3.0
- PEXMCU-3315 - fsl_lpuart, fsl_lpsci - baud rate and clock source property values are not correctly transferred after project switch from KSDK 1.2.0 to KSDK 1.3.0 due to timing item removal.
- PEXMCU-3160 - KM3x_256 - xbar - Connection among XBAR and other peripherals is not fully supported
- PEXMCU-3724 - When compiler is changed in processor component to unsupported one (there is no toolchain for the particular compiler in the IDE) and then back to supported one then not all toolchain settings are restored resulting in compiler errors. For example linker library flags are missing (--specs=nosys.specs --specs=nano.specs)
- PEXCORE-1152 - MKL16Z256xxx4 - When Processor Expert is enabled for existing C project target processor is not added to the project. Workaround: Add the processor component manually using Components Library into project.
- PEXCORE-1153 - MK22FN1M0Axxx12, MK22FX512Axxx12 - Erroneous project is created when Processor Expert is enabled for existing C project. Workaround: Select the MK21FN1M0Axxx12 device when enabling Processor Expert project. Once the project is created, change the processor in the Processor Expert project to desired MCU.
- PEXMCU-3800 - KM3x_256 - fsl_clock_manager - PLL clock generation for AFE peripheral is not available in fsl_clock_manager component.
- PEXMCU-3633 - It is not possible to import Processor Expert SDK components (PEF files) from a project using KSDK 1.2.0 into a project using any other KSDK version in such a case when the processor used in the new project is not supported by KSDK 1.2.0
- PEXMCU-3815 - Atollic toolchain - Linker flags are not managed correctly when opening older KSDK projects than project created in KSDK 1.3 or when the user switches from MQX RTOS (in fsl_os_abstraction) to any other RTOS. In this case, the user has to change the linker options manually. The correct value for the linker options ('Other linker flags') is: -specs=nosys.specs -specs=nano.specs -Xlinker -z -Xlinker muldefs

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