

SafeTI™ Hercules™ Diagnostic Library

Release version 2.3.2

The table below lists the memory requirements when integrating the library built in release mode.

MEMORY STATISTICS (IN BYTES) for the SafeTI Hercules Diagnostic Library		
RM48/TMS570LS31		
Program	Data	Total
20032	505	20537
RM46/TMS570LS12x/11x		
Program	Data	Total
20364	505	20869
RM42/TMS570LS04x/03x		
Program	Data	Total
18040	503	18543
RM57L/TMS570LC43x		
Program	Data	Total
15352	486	15838

MEMORY STATISTICS (IN BYTES) for the TPS65381 driver		
RM4 devices with VFP support		
Program	Data	Total
11304	252	11556
RM4 devices without VFP support		
Program	Data	Total
11304	252	11556
TMS570LS devices with VFP support		
Program	Data	Total
11316	252	11568
TMS570LS devices without VFP support		
Program	Data	Total
11316	252	11568

Profiling data for SafeTI™ Hercules™ Diagnostic Library API.

Notes: Measurements were made on an RM42 and TMS570LS04 device, with HCLK = 80 MHz.

Some tests do not generate an ESM event, and hence the time to handler is not available.

Fault injection timings depend on the handling done by application, and hence is not profiled.

Please refer to the API user's guide for details on fault injection.

Timings are indicative, appropriate care should be taken by application when using the data provided here depending on application scenario.

SafeTI Diagnostic Library Test	Timing Measurements (us)
SRAM_ECC_ERROR_FORCING_1BIT	16.2375
SRAM_ECC_1BIT_FAULT_INJECTION	NA
SRAM_ECC_ERROR_FORCING_2BIT	219.375
SRAM_ECC_2BIT_FAULT_INJECT	NA
SRAM_PAR_ADDR_CTRL_SELF_TEST	223.6
SRAM_ECC_ERROR_PROFILING	NA
SRAM_ECC_ERROR_PROFILING_FAULT_INJECT	NA
SRAM_RADECODE_DIAGNOSTICS	419.6
SRAM_LIVELOCK_DIAGNOSTICS	NA
ADC_SELFTEST_ALL	53.475
ADC_SRAM_PARITY_TEST	7.175
FEE_ECC_DATA_CORR_MODE	11.3375
FEE_ECC_SYN_REPORT_MODE	7.925
FEE_ECC_MALFUNCTION_MODE1	8.0375
FEE_ECC_MALFUNCTION_MODE2	10.8375
FEE_ECC_ADDR_TAG_REG_MODE	NA
FEE_ECC_TEST_MODE_1BIT	12.5375
FEE_ECC_TEST_MODE_1BIT_FAULT_INJECT	NA
FEE_ECC_TEST_MODE_2BIT	11.725
FEE_ECC_TEST_MODE_2BIT_FAULT_INJECT	NA
FLASH_ECC_ADDR_TAG_REG_MODE	NA
FLASH_ADDRESS_ECC_SELF_TEST	NA
FLASH_ADDRESS_ECC_FAULT_INJECT	NA
FLASH_ADDRESS_PARITY_SELF_TEST	218.8375
FLASH_ADDRESS_PARITY_FAULT_INJECT	NA
FLASH_ECC_TEST_MODE_1BIT	11.55
FLASH_ECC_TEST_MODE_2BIT	418.3
FLASH_HARD_ERROR_LIVELOCK	NA
FLASH_ECC_TEST_MODE_2BIT_FAULT_INJECT	3.275
PBIST_EXECUTE	NA
PBIST_EXECUTE_OVERRIDE	NA
STC_RUN	NA
STC_COMPARE_SELFCHK	NA
PSCON_SELF_TEST	NA
PSCON_ERROR_FORCING	NA
PSCON_ERROR_FORCING_FAULT_INJECT	NA
PSCON_SELF_TEST_ERROR_FORCING	NA
PSCON_SELF_TEST_ERROR_FORCING_FAULT_INJECT	NA
PSCON_PMA_TEST	NA

EFUSE_SELF_TEST_AUTOLOAD	NA
EFUSE_SELF_TEST_ECC	7.0125
EFUSE_SELF_TEST_STUCK_AT_ZERO	209.725
CCMR4F_SELF_TEST	NA
CCMR4F_ERROR_FORCING_TEST	NA
CCMR4F_ERROR_FORCING_TEST_FAULT_INJECT	NA
CCMR4F_SELF_TEST_ERROR_FORCING	NA
L2INTERCONNECT_RESERVED_ACCESS	7.3625
L2INTERCONNECT_UNPRIVILEGED_ACCESS	NA
L3INTERCONNECT_RESERVED_ACCESS	6.975
L3INTERCONNECT_UNPRIVILEGED_ACCESS	NA
VIM_SRAM_PARITY_TEST	9.5125
VIM_SOFTWARE_TEST	419.95
HET_SRAM_PARITY_TEST	10.2
HET_ANALOG_LOOPBACK_TEST	NA
HTU_SRAM_PARITY_TEST	9.475
MIBSPI_SRAM_PARITY_TEST	11.875
MIBSPI_ANALOG_LOOPBACK_TEST	33
SPI_ANALOG_LOOPBACK_TEST	24.1875
CAN_SRAM_PARITY_TEST	12.925
CAN_ANALOG_LOOPBACK_TEST	NA
GIO_ANALOG_LOOPBACK_TEST	5.0625
SCI_ANALOG_LOOPBACK_TEST	NA

Profiling information for PBIST algorithms.

RAM Group	PBIST Algorithm	Profiling measurement (us)
PBIST_RAMGROUP_01_PBIST_ROM	PBISTALGO_TRIPLE_READ_SLOW_READ	239.2727273
PBIST_RAMGROUP_01_PBIST_ROM	PBISTALGO_TRIPLE_READ_FAST_READ	90.53181818
PBIST_RAMGROUP_02_STC_ROM	PBISTALGO_TRIPLE_READ_SLOW_READ	193.9863636
PBIST_RAMGROUP_02_STC_ROM	PBISTALGO_TRIPLE_READ_FAST_READ	75.06818182
PBIST_RAMGROUP_03_DCAN1	PBISTALGO_MARCH13N_RED_2PORT	304.6590909
PBIST_RAMGROUP_03_DCAN1	PBISTALGO_DOWN1A_RED_2PORT	80.75909091
PBIST_RAMGROUP_03_DCAN1	PBISTALGO_MAPCOLUMN_2PORT	94.61363636
PBIST_RAMGROUP_03_DCAN1	PBISTALGO_PRECHARGE_2PORT	72.85909091
PBIST_RAMGROUP_03_DCAN1	PBISTALGO_DTXN2_2PORT	106.4772727
PBIST_RAMGROUP_03_DCAN1	PBISTALGO_FLIP10_2PORT	66.14090909
PBIST_RAMGROUP_03_DCAN1	PBISTALGO_IDDQ_2PORT	27.77727273
PBIST_RAMGROUP_03_DCAN1	PBISTALGO_RETENTION_2PORT	27.77727273
PBIST_RAMGROUP_03_DCAN1	PBISTALGO_IDDQ2_2PORT	27.77727273
PBIST_RAMGROUP_03_DCAN1	PBISTALGO_RETENTION2_2PORT	27.77727273
PBIST_RAMGROUP_03_DCAN1	PBISTALGO_IDDQROWSTRIPE_2PORT	28.17727273
PBIST_RAMGROUP_03_DCAN1	PBISTALGO_IDDQROWSTRIPE2_2PORT	28.17727273
PBIST_RAMGROUP_04_DCAN2	PBISTALGO_MARCH13N_RED_2PORT	303.0090909
PBIST_RAMGROUP_04_DCAN2	PBISTALGO_DOWN1A_RED_2PORT	79.58636364
PBIST_RAMGROUP_04_DCAN2	PBISTALGO_MAPCOLUMN_2PORT	94.61363636
PBIST_RAMGROUP_04_DCAN2	PBISTALGO_PRECHARGE_2PORT	72.85909091
PBIST_RAMGROUP_04_DCAN2	PBISTALGO_DTXN2_2PORT	106.4772727
PBIST_RAMGROUP_04_DCAN2	PBISTALGO_PMOS_OPEN_2PORT	246.5590909
PBIST_RAMGROUP_04_DCAN2	PBISTALGO_FLIP10_2PORT	66.14090909
PBIST_RAMGROUP_04_DCAN2	PBISTALGO_IDDQ_2PORT	27.77727273
PBIST_RAMGROUP_04_DCAN2	PBISTALGO_RETENTION_2PORT	27.77727273
PBIST_RAMGROUP_04_DCAN2	PBISTALGO_IDDQ2_2PORT	27.77727273
PBIST_RAMGROUP_04_DCAN2	PBISTALGO_RETENTION2_2PORT	27.77727273
PBIST_RAMGROUP_04_DCAN2	PBISTALGO_IDDQROWSTRIPE_2PORT	28.17727273
PBIST_RAMGROUP_04_DCAN2	PBISTALGO_IDDQROWSTRIPE2_2PORT	28.17727273
PBIST_RAMGROUP_05_DCAN3	PBISTALGO_MARCH13N_RED_2PORT	303.0090909
PBIST_RAMGROUP_05_DCAN3	PBISTALGO_DOWN1A_RED_2PORT	79.58636364
PBIST_RAMGROUP_05_DCAN3	PBISTALGO_MAPCOLUMN_2PORT	94.61363636
PBIST_RAMGROUP_05_DCAN3	PBISTALGO_PRECHARGE_2PORT	72.85909091
PBIST_RAMGROUP_05_DCAN3	PBISTALGO_DTXN2_2PORT	106.4772727
PBIST_RAMGROUP_05_DCAN3	PBISTALGO_PMOS_OPEN_2PORT	246.5590909
PBIST_RAMGROUP_05_DCAN3	PBISTALGO_FLIP10_2PORT	66.14090909
PBIST_RAMGROUP_05_DCAN3	PBISTALGO_IDDQ_2PORT	27.77727273
PBIST_RAMGROUP_05_DCAN3	PBISTALGO_RETENTION_2PORT	27.77727273
PBIST_RAMGROUP_05_DCAN3	PBISTALGO_IDDQ2_2PORT	27.77727273
PBIST_RAMGROUP_05_DCAN3	PBISTALGO_RETENTION2_2PORT	27.77727273
PBIST_RAMGROUP_05_DCAN3	PBISTALGO_IDDQROWSTRIPE_2PORT	28.17727273
PBIST_RAMGROUP_05_DCAN3	PBISTALGO_IDDQROWSTRIPE2_2PORT	28.17727273
PBIST_RAMGROUP_07_MIBSPI1	PBISTALGO_MARCH13N_RED_2PORT	361.1454545
PBIST_RAMGROUP_07_MIBSPI1	PBISTALGO_DOWN1A_RED_2PORT	86.30454545

PBIST_RAMGROUP_07_MIBSPI1	PBISTALGO_MAPCOLUMN_2PORT	106.8681818
PBIST_RAMGROUP_07_MIBSPI1	PBISTALGO_PRECHARGE_2PORT	78.00454545
PBIST_RAMGROUP_07_MIBSPI1	PBISTALGO_DTXN2_2PORT	160.2590909
PBIST_RAMGROUP_07_MIBSPI1	PBISTALGO_PMOS_OPEN_2PORT	346.6
PBIST_RAMGROUP_07_MIBSPI1	PBISTALGO_FLIP10_2PORT	76.81363636
PBIST_RAMGROUP_07_MIBSPI1	PBISTALGO_IDDQ_2PORT	25.40454545
PBIST_RAMGROUP_07_MIBSPI1	PBISTALGO_RETENTION_2PORT	25.80454545
PBIST_RAMGROUP_07_MIBSPI1	PBISTALGO_IDDQ2_2PORT	25.40454545
PBIST_RAMGROUP_07_MIBSPI1	PBISTALGO_RETENTION2_2PORT	25.80454545
PBIST_RAMGROUP_07_MIBSPI1	PBISTALGO_IDDQROWSTRIPE_2PORT	25.80454545
PBIST_RAMGROUP_07_MIBSPI1	PBISTALGO_IDDQROWSTRIPE2_2PORT	25.80454545
PBIST_RAMGROUP_08_MIBSPI3	PBISTALGO_MARCH13N_RED_2PORT	361.1454545
PBIST_RAMGROUP_08_MIBSPI3	PBISTALGO_DOWN1A_RED_2PORT	86.30454545
PBIST_RAMGROUP_08_MIBSPI3	PBISTALGO_MAPCOLUMN_2PORT	106.8681818
PBIST_RAMGROUP_08_MIBSPI3	PBISTALGO_PRECHARGE_2PORT	78.00454545
PBIST_RAMGROUP_08_MIBSPI3	PBISTALGO_DTXN2_2PORT	160.2590909
PBIST_RAMGROUP_08_MIBSPI3	PBISTALGO_PMOS_OPEN_2PORT	346.6045455
PBIST_RAMGROUP_08_MIBSPI3	PBISTALGO_FLIP10_2PORT	76.81363636
PBIST_RAMGROUP_08_MIBSPI3	PBISTALGO_IDDQ_2PORT	25.40454545
PBIST_RAMGROUP_08_MIBSPI3	PBISTALGO_RETENTION_2PORT	25.80454545
PBIST_RAMGROUP_08_MIBSPI3	PBISTALGO_IDDQ2_2PORT	25.40454545
PBIST_RAMGROUP_08_MIBSPI3	PBISTALGO_RETENTION2_2PORT	25.80454545
PBIST_RAMGROUP_08_MIBSPI3	PBISTALGO_IDDQROWSTRIPE_2PORT	25.80454545
PBIST_RAMGROUP_08_MIBSPI3	PBISTALGO_IDDQROWSTRIPE2_2PORT	25.80454545
PBIST_RAMGROUP_09_MIBSPI5	PBISTALGO_MARCH13N_RED_2PORT	361.1454545
PBIST_RAMGROUP_09_MIBSPI5	PBISTALGO_DOWN1A_RED_2PORT	86.30454545
PBIST_RAMGROUP_09_MIBSPI5	PBISTALGO_MAPCOLUMN_2PORT	106.8681818
PBIST_RAMGROUP_09_MIBSPI5	PBISTALGO_PRECHARGE_2PORT	78.00454545
PBIST_RAMGROUP_09_MIBSPI5	PBISTALGO_DTXN2_2PORT	160.2590909
PBIST_RAMGROUP_09_MIBSPI5	PBISTALGO_PMOS_OPEN_2PORT	346.6045455
PBIST_RAMGROUP_09_MIBSPI5	PBISTALGO_FLIP10_2PORT	76.81363636
PBIST_RAMGROUP_09_MIBSPI5	PBISTALGO_IDDQ_2PORT	25.40454545
PBIST_RAMGROUP_09_MIBSPI5	PBISTALGO_RETENTION_2PORT	25.80454545
PBIST_RAMGROUP_09_MIBSPI5	PBISTALGO_IDDQ2_2PORT	25.40454545
PBIST_RAMGROUP_09_MIBSPI5	PBISTALGO_RETENTION2_2PORT	25.80454545
PBIST_RAMGROUP_09_MIBSPI5	PBISTALGO_IDDQROWSTRIPE_2PORT	25.80454545
PBIST_RAMGROUP_09_MIBSPI5	PBISTALGO_IDDQROWSTRIPE2_2PORT	25.80454545
PBIST_RAMGROUP_11_MIBADC1	PBISTALGO_MARCH13N_RED_2PORT	70.09090909
PBIST_RAMGROUP_11_MIBADC1	PBISTALGO_DOWN1A_RED_2PORT	26.98636364
PBIST_RAMGROUP_11_MIBADC1	PBISTALGO_MAPCOLUMN_2PORT	29.75909091
PBIST_RAMGROUP_11_MIBADC1	PBISTALGO_PRECHARGE_2PORT	25.80454545
PBIST_RAMGROUP_11_MIBADC1	PBISTALGO_DTXN2_2PORT	36.08636364
PBIST_RAMGROUP_11_MIBADC1	PBISTALGO_PMOS_OPEN_2PORT	54.75909091
PBIST_RAMGROUP_11_MIBADC1	PBISTALGO_FLIP10_2PORT	22.64090909
PBIST_RAMGROUP_11_MIBADC1	PBISTALGO_IDDQ_2PORT	16.31363636
PBIST_RAMGROUP_11_MIBADC1	PBISTALGO_RETENTION_2PORT	16.31363636
PBIST_RAMGROUP_11_MIBADC1	PBISTALGO_IDDQ2_2PORT	16.31363636
PBIST_RAMGROUP_11_MIBADC1	PBISTALGO_RETENTION2_2PORT	16.31363636
PBIST_RAMGROUP_11_MIBADC1	PBISTALGO_IDDQROWSTRIPE_2PORT	16.31363636
PBIST_RAMGROUP_11_MIBADC1	PBISTALGO_IDDQROWSTRIPE2_2PORT	16.31363636

PBIST_RAMGROUP_12_DMA	PBISTALGO_MARCH13N_RED_2PORT	150.7090909
PBIST_RAMGROUP_12_DMA	PBISTALGO_DOWN1A_RED_2PORT	49.07727273
PBIST_RAMGROUP_12_DMA	PBISTALGO_MAPCOLUMN_2PORT	55.01363636
PBIST_RAMGROUP_12_DMA	PBISTALGO_PRECHARGE_2PORT	46.31363636
PBIST_RAMGROUP_12_DMA	PBISTALGO_DTXN2_2PORT	58.96818182
PBIST_RAMGROUP_12_DMA	PBISTALGO_Pmos_OPEN_SLICE1_2POR	78.40909091
PBIST_RAMGROUP_12_DMA	PBISTALGO_Pmos_OPEN_SLICE2_1POR	41.26818182
PBIST_RAMGROUP_12_DMA	PBISTALGO_FLIP10_2PORT	38.00454545
PBIST_RAMGROUP_12_DMA	PBISTALGO_IDDQ_2PORT	23.37727273
PBIST_RAMGROUP_12_DMA	PBISTALGO_RETENTION_2PORT	23.76818182
PBIST_RAMGROUP_12_DMA	PBISTALGO_IDDQ2_2PORT	23.37727273
PBIST_RAMGROUP_12_DMA	PBISTALGO_RETENTION2_2PORT	23.76818182
PBIST_RAMGROUP_12_DMA	PBISTALGO_IDDQROWSTRIPE_2PORT	23.76818182
PBIST_RAMGROUP_12_DMA	PBISTALGO_IDDQROWSTRIPE2_2PORT	23.76818182
PBIST_RAMGROUP_13_N2HET1	PBISTALGO_MARCH13N_RED_2PORT	412.9454545
PBIST_RAMGROUP_13_N2HET1	PBISTALGO_DOWN1A_RED_2PORT	111.2227273
PBIST_RAMGROUP_13_N2HET1	PBISTALGO_MAPCOLUMN_2PORT	131.3863636
PBIST_RAMGROUP_13_N2HET1	PBISTALGO_PRECHARGE_2PORT	102.9136364
PBIST_RAMGROUP_13_N2HET1	PBISTALGO_DTXN2_2PORT	144.4409091
PBIST_RAMGROUP_13_N2HET1	PBISTALGO_Pmos_OPEN_SLICE1_2POR	239.1227273
PBIST_RAMGROUP_13_N2HET1	PBISTALGO_Pmos_OPEN_SLICE2_1POR	71.03181818
PBIST_RAMGROUP_13_N2HET1	PBISTALGO_FLIP10_2PORT	87.09545455
PBIST_RAMGROUP_13_N2HET1	PBISTALGO_IDDQ_2PORT	38.45909091
PBIST_RAMGROUP_13_N2HET1	PBISTALGO_RETENTION_2PORT	38.85
PBIST_RAMGROUP_13_N2HET1	PBISTALGO_IDDQ2_2PORT	38.45909091
PBIST_RAMGROUP_13_N2HET1	PBISTALGO_RETENTION2_2PORT	38.85
PBIST_RAMGROUP_13_N2HET1	PBISTALGO_IDDQROWSTRIPE_2PORT	39.25
PBIST_RAMGROUP_13_N2HET1	PBISTALGO_IDDQROWSTRIPE2_2PORT	39.25
PBIST_RAMGROUP_14_HETTU1	PBISTALGO_MARCH13N_RED_2PORT	132.9636364
PBIST_RAMGROUP_14_HETTU1	PBISTALGO_DOWN1A_RED_2PORT	47.95
PBIST_RAMGROUP_14_HETTU1	PBISTALGO_MAPCOLUMN_2PORT	52.69545455
PBIST_RAMGROUP_14_HETTU1	PBISTALGO_PRECHARGE_2PORT	46.36818182
PBIST_RAMGROUP_14_HETTU1	PBISTALGO_DTXN2_2PORT	54.27727273
PBIST_RAMGROUP_14_HETTU1	PBISTALGO_Pmos_OPEN_2PORT	75.32272727
PBIST_RAMGROUP_14_HETTU1	PBISTALGO_FLIP10_2PORT	34.89545455
PBIST_RAMGROUP_14_HETTU1	PBISTALGO_IDDQ_2PORT	25.01363636
PBIST_RAMGROUP_14_HETTU1	PBISTALGO_RETENTION_2PORT	25.40454545
PBIST_RAMGROUP_14_HETTU1	PBISTALGO_IDDQ2_2PORT	25.01363636
PBIST_RAMGROUP_14_HETTU1	PBISTALGO_RETENTION2_2PORT	25.40454545
PBIST_RAMGROUP_14_HETTU1	PBISTALGO_IDDQROWSTRIPE_2PORT	25.40454545
PBIST_RAMGROUP_14_HETTU1	PBISTALGO_IDDQROWSTRIPE2_2PORT	25.40454545
PBIST_RAMGROUP_18_MIBADC2	PBISTALGO_MARCH13N_RED_2PORT	70.09090909
PBIST_RAMGROUP_18_MIBADC2	PBISTALGO_DOWN1A_RED_2PORT	26.98636364
PBIST_RAMGROUP_18_MIBADC2	PBISTALGO_MAPCOLUMN_2PORT	29.75909091
PBIST_RAMGROUP_18_MIBADC2	PBISTALGO_PRECHARGE_2PORT	25.80454545
PBIST_RAMGROUP_18_MIBADC2	PBISTALGO_DTXN2_2PORT	36.08636364
PBIST_RAMGROUP_18_MIBADC2	PBISTALGO_Pmos_OPEN_2PORT	54.75909091
PBIST_RAMGROUP_18_MIBADC2	PBISTALGO_FLIP10_2PORT	22.64090909
PBIST_RAMGROUP_18_MIBADC2	PBISTALGO_IDDQ_2PORT	16.31363636
PBIST_RAMGROUP_18_MIBADC2	PBISTALGO_RETENTION_2PORT	16.31363636

PBIST_RAMGROUP_18_MIBADC2	PBISTALGO_IDDQ2_2PORT	16.31363636
PBIST_RAMGROUP_18_MIBADC2	PBISTALGO_RETENTION2_2PORT	16.31363636
PBIST_RAMGROUP_18_MIBADC2	PBISTALGO_IDDQROWSTRIPE_2PORT	16.31363636
PBIST_RAMGROUP_18_MIBADC2	PBISTALGO_IDDQROWSTRIPE2_2PORT	16.31363636
PBIST_RAMGROUP_19_N2HET2	PBISTALGO_MARCH13N_RED_2PORT	412.9454545
PBIST_RAMGROUP_19_N2HET2	PBISTALGO_DOWN1A_RED_2PORT	111.2227273
PBIST_RAMGROUP_19_N2HET2	PBISTALGO_MAPCOLUMN_2PORT	131.3863636
PBIST_RAMGROUP_19_N2HET2	PBISTALGO_PRECHARGE_2PORT	102.9136364
PBIST_RAMGROUP_19_N2HET2	PBISTALGO_DTXN2_2PORT	144.4409091
PBIST_RAMGROUP_19_N2HET2	PBISTALGO_PMO5_OPEN_SLICE1_2POR	239.1227273
PBIST_RAMGROUP_19_N2HET2	PBISTALGO_PMO5_OPEN_SLICE2_1POR	71.03181818
PBIST_RAMGROUP_19_N2HET2	PBISTALGO_FLIP10_2PORT	87.09545455
PBIST_RAMGROUP_19_N2HET2	PBISTALGO_IDDQ_2PORT	38.45909091
PBIST_RAMGROUP_19_N2HET2	PBISTALGO_RETENTION_2PORT	38.85
PBIST_RAMGROUP_19_N2HET2	PBISTALGO_IDDQ2_2PORT	38.45909091
PBIST_RAMGROUP_19_N2HET2	PBISTALGO_RETENTION2_2PORT	38.85
PBIST_RAMGROUP_19_N2HET2	PBISTALGO_IDDQROWSTRIPE_2PORT	39.25
PBIST_RAMGROUP_19_N2HET2	PBISTALGO_IDDQROWSTRIPE2_2PORT	39.25
PBIST_RAMGROUP_20_HETTU2	PBISTALGO_MARCH13N_RED_2PORT	132.9636364
PBIST_RAMGROUP_20_HETTU2	PBISTALGO_DOWN1A_RED_2PORT	47.95
PBIST_RAMGROUP_20_HETTU2	PBISTALGO_MAPCOLUMN_2PORT	52.69545455
PBIST_RAMGROUP_20_HETTU2	PBISTALGO_PRECHARGE_2PORT	46.36818182
PBIST_RAMGROUP_20_HETTU2	PBISTALGO_DTXN2_2PORT	54.27727273
PBIST_RAMGROUP_20_HETTU2	PBISTALGO_PMO5_OPEN_2PORT	75.32272727
PBIST_RAMGROUP_20_HETTU2	PBISTALGO_FLIP10_2PORT	34.89545455
PBIST_RAMGROUP_20_HETTU2	PBISTALGO_IDDQ_2PORT	25.01363636
PBIST_RAMGROUP_20_HETTU2	PBISTALGO_RETENTION_2PORT	25.40454545
PBIST_RAMGROUP_20_HETTU2	PBISTALGO_IDDQ2_2PORT	25.01363636
PBIST_RAMGROUP_20_HETTU2	PBISTALGO_RETENTION2_2PORT	25.40454545
PBIST_RAMGROUP_20_HETTU2	PBISTALGO_IDDQROWSTRIPE_2PORT	25.40454545
PBIST_RAMGROUP_20_HETTU2	PBISTALGO_IDDQROWSTRIPE2_2PORT	25.40454545
PBIST_RAMGROUP_23_ETHERNET1	PBISTALGO_MARCH13N_RED_2PORT	125.8272727
PBIST_RAMGROUP_23_ETHERNET1	PBISTALGO_DOWN1A_RED_2PORT	40.41363636
PBIST_RAMGROUP_23_ETHERNET1	PBISTALGO_MAPCOLUMN_2PORT	45.95
PBIST_RAMGROUP_23_ETHERNET1	PBISTALGO_PRECHARGE_2PORT	38.44090909
PBIST_RAMGROUP_23_ETHERNET1	PBISTALGO_DTXN2_2PORT	49.90454545
PBIST_RAMGROUP_23_ETHERNET1	PBISTALGO_PMO5_OPEN_SLICE1_2POR	71.40454545
PBIST_RAMGROUP_23_ETHERNET1	PBISTALGO_PMO5_OPEN_SLICE2_1POR	31.92272727
PBIST_RAMGROUP_23_ETHERNET1	PBISTALGO_FLIP10_2PORT	33.29545455
PBIST_RAMGROUP_23_ETHERNET1	PBISTALGO_IDDQ_2PORT	19.85
PBIST_RAMGROUP_23_ETHERNET1	PBISTALGO_RETENTION_2PORT	19.85
PBIST_RAMGROUP_23_ETHERNET1	PBISTALGO_IDDQ2_2PORT	19.85
PBIST_RAMGROUP_23_ETHERNET1	PBISTALGO_RETENTION2_2PORT	19.85
PBIST_RAMGROUP_23_ETHERNET1	PBISTALGO_IDDQROWSTRIPE_2PORT	20.25
PBIST_RAMGROUP_23_ETHERNET1	PBISTALGO_IDDQROWSTRIPE2_2PORT	20.25
PBIST_RAMGROUP_24_ETHERNET2	PBISTALGO_MARCH13N_RED_2PORT	104.4727273
PBIST_RAMGROUP_24_ETHERNET2	PBISTALGO_DOWN1A_RED_2PORT	36.45909091
PBIST_RAMGROUP_24_ETHERNET2	PBISTALGO_MAPCOLUMN_2PORT	41.60454545
PBIST_RAMGROUP_24_ETHERNET2	PBISTALGO_PRECHARGE_2PORT	35.27727273
PBIST_RAMGROUP_24_ETHERNET2	PBISTALGO_DTXN2_2PORT	50.30454545

PBIST_RAMGROUP_24_ETHERNET2	PBISTALGO_PMOS_OPEN_2PORT	71.35
PBIST_RAMGROUP_24_ETHERNET2	PBISTALGO_FLIP10_2PORT	29.34090909
PBIST_RAMGROUP_24_ETHERNET2	PBISTALGO_IDDQ_2PORT	19.45909091
PBIST_RAMGROUP_24_ETHERNET2	PBISTALGO_RETENTION_2PORT	19.85
PBIST_RAMGROUP_24_ETHERNET2	PBISTALGO_IDDQ2_2PORT	19.45909091
PBIST_RAMGROUP_24_ETHERNET2	PBISTALGO_RETENTION2_2PORT	19.85
PBIST_RAMGROUP_24_ETHERNET2	PBISTALGO_IDDQROWSTRIPE_2PORT	19.85
PBIST_RAMGROUP_24_ETHERNET2	PBISTALGO_IDDQROWSTRIPE2_2PORT	19.85
PBIST_RAMGROUP_25_ETHERNET3	PBISTALGO_MAPCOLUMN_1PORT	318.5272727
PBIST_RAMGROUP_25_ETHERNET3	PBISTALGO_PRECHARGE_1PORT	206.3363636
PBIST_RAMGROUP_25_ETHERNET3	PBISTALGO_DTXN2_1PORT	838.8545455
PBIST_RAMGROUP_25_ETHERNET3	PBISTALGO_PMOS_OPEN_1PORT	1918.645455
PBIST_RAMGROUP_25_ETHERNET3	PBISTALGO_FLIP10_1PORT	239.1363636
PBIST_RAMGROUP_25_ETHERNET3	PBISTALGO_IDDQ_1PORT	34.50909091
PBIST_RAMGROUP_25_ETHERNET3	PBISTALGO_RETENTION_1PORT	34.50909091
PBIST_RAMGROUP_25_ETHERNET3	PBISTALGO_IDDQ2_1PORT	34.50909091
PBIST_RAMGROUP_25_ETHERNET3	PBISTALGO_RETENTION2_1PORT	34.50909091
PBIST_RAMGROUP_25_ETHERNET3	PBISTALGO_IDDQROWSTRIPE_1PORT	34.50909091
PBIST_RAMGROUP_25_ETHERNET3	PBISTALGO_IDDQROWSTRIPE2_1PORT	34.50909091

Profiling data for SafeTI™ Hercules™ Diagnostic Library API.

Notes: Measurements were made on an RM46 and TMS570LS12 device, with HCLK = 220 MHz.

Some tests do not generate an ESM event, and hence the time to handler is not available.

Fault injection timings depend on the handling done by application, and hence is not profiled.

Please refer to the API user's guide for details on fault injection.

Timings are indicative, appropriate care should be taken by application when using the data provided here depending on application scenario.

SafeTI Diagnostic Library Test	Timing Measurements (us)
SRAM_ECC_ERROR_FORCING_1BIT	6.990909091
SRAM_ECC_1BIT_FAULT_INJECTION	NA
SRAM_ECC_ERROR_FORCING_2BIT	155.4590909
SRAM_ECC_2BIT_FAULT_INJECT	NA
SRAM_PAR_ADDR_CTRL_SELF_TEST	158.1863636
SRAM_ECC_ERROR_PROFILING	NA
SRAM_ECC_ERROR_PROFILING_FAULT_INJECT	NA
SRAM_RADECODE_DIAGNOSTICS	302.1909091
SRAM_LIVELOCK_DIAGNOSTICS	NA
ADC_SELFTEST_ALL	36.53181818
ADC_SRAM_PARITY_TEST	2.940909091
FEE_ECC_DATA_CORR_MODE	4.831818182
FEE_ECC_SYN_REPORT_MODE	3.459090909
FEE_ECC_MALFUNCTION_MODE1	3.522727273
FEE_ECC_MALFUNCTION_MODE2	4.681818182
FEE_ECC_ADDR_TAG_REG_MODE	NA
FEE_ECC_TEST_MODE_1BIT	5.227272727
FEE_ECC_TEST_MODE_1BIT_FAULT_INJECT	NA
FEE_ECC_TEST_MODE_2BIT	5.081818182
FEE_ECC_TEST_MODE_2BIT_FAULT_INJECT	NA
FLASH_ECC_ADDR_TAG_REG_MODE	NA
FLASH_ADDRESS_ECC_SELF_TEST	NA
FLASH_ADDRESS_ECC_FAULT_INJECT	NA
FLASH_ADDRESS_PARITY_SELF_TEST	155.5590909
FLASH_ADDRESS_PARITY_FAULT_INJECT	NA
FLASH_ECC_TEST_MODE_1BIT	4.881818182
FLASH_ECC_TEST_MODE_2BIT	301.6227273
FLASH_HARD_ERROR_LIVELOCK	NA
FLASH_ECC_TEST_MODE_2BIT_FAULT_INJECT	1.5
PBIST_EXECUTE	NA
PBIST_EXECUTE_OVERRIDE	NA
STC_RUN	NA
STC_COMPARE_SELFCHK	NA
PSCON_SELF_TEST	1.854545455
PSCON_ERROR_FORCING	2.263636364
PSCON_ERROR_FORCING_FAULT_INJECT	4.718181818
PSCON_SELF_TEST_ERROR_FORCING	2.186363636
PSCON_SELF_TEST_ERROR_FORCING_FAULT_INJECT	NA
PSCON_PMA_TEST	NA

EFUSE_SELF_TEST_AUTOLOAD	NA
EFUSE_SELF_TEST_ECC	5.236363636
EFUSE_SELF_TEST_STUCK_AT_ZERO	151.1318182
CCMR4F_SELF_TEST	NA
CCMR4F_ERROR_FORCING_TEST	NA
CCMR4F_ERROR_FORCING_TEST_FAULT_INJECT	NA
CCMR4F_SELF_TEST_ERROR_FORCING	NA
L2INTERCONNECT_RESERVED_ACCESS	3.640909091
L2INTERCONNECT_UNPRIVELEGED_ACCESS	NA
L3INTERCONNECT_RESERVED_ACCESS	3.781818182
L3INTERCONNECT_UNPRIVELEGED_ACCESS	NA
VIM_SRAM_PARITY_TEST	4.190909091
VIM_SOFTWARE_TEST	302.6363636
DMA_SRAM_PARITY_TEST	4.536363636
DMA_SOFTWARE_TEST	34.12727273
HET_SRAM_PARITY_TEST	4.918181818
HET_ANALOG_LOOPBACK_TEST	41.40454545
HTU_SRAM_PARITY_TEST	4.145454545
MIBSPI_SRAM_PARITY_TEST	5.309090909
MIBSPI_ANALOG_LOOPBACK_TEST	23.31363636
SPI_ANALOG_LOOPBACK_TEST	19.63636364
CAN_SRAM_PARITY_TEST	5.522727273
CAN_ANALOG_LOOPBACK_TEST	NA
GIO_ANALOG_LOOPBACK_TEST	2.404545455
SCI_ANALOG_LOOPBACK_TEST	1091.240909

Profiling information for PBIST algorithms.

RAM Group	PBIST Algorithm	Profiling measurement (us)
PBIST_RAMGROUP_01_PBIST_ROM	PBISTALGO_TRIPLE_READ_SLOW_READ	240.8136
PBIST_RAMGROUP_01_PBIST_ROM	PBISTALGO_TRIPLE_READ_FAST_READ	91.8800
PBIST_RAMGROUP_02_STC_ROM	PBISTALGO_TRIPLE_READ_SLOW_READ	195.2591
PBIST_RAMGROUP_02_STC_ROM	PBISTALGO_TRIPLE_READ_FAST_READ	76.5727
PBIST_RAMGROUP_03_DCAN1	PBISTALGO_MARCH13N_RED_2PORT	305.3900
PBIST_RAMGROUP_03_DCAN1	PBISTALGO_DOWN1A_RED_2PORT	81.3386
PBIST_RAMGROUP_03_DCAN1	PBISTALGO_MAPCOLUMN_2PORT	96.3577
PBIST_RAMGROUP_03_DCAN1	PBISTALGO_PRECHARGE_2PORT	74.1455
PBIST_RAMGROUP_03_DCAN1	PBISTALGO_DTXN2_2PORT	108.1873
PBIST_RAMGROUP_03_DCAN1	PBISTALGO_FLIP10_2PORT	67.6727
PBIST_RAMGROUP_03_DCAN1	PBISTALGO_IDDQ_2PORT	29.2455
PBIST_RAMGROUP_03_DCAN1	PBISTALGO_RETENTION_2PORT	29.2600
PBIST_RAMGROUP_03_DCAN1	PBISTALGO_IDDQ2_2PORT	29.2036
PBIST_RAMGROUP_03_DCAN1	PBISTALGO_RETENTION2_2PORT	29.2455
PBIST_RAMGROUP_03_DCAN1	PBISTALGO_IDDQROWSTRIPE_2PORT	29.6455
PBIST_RAMGROUP_03_DCAN1	PBISTALGO_IDDQROWSTRIPE2_2PORT	29.6455
PBIST_RAMGROUP_04_DCAN2	PBISTALGO_MARCH13N_RED_2PORT	304.5245
PBIST_RAMGROUP_04_DCAN2	PBISTALGO_DOWN1A_RED_2PORT	81.0273
PBIST_RAMGROUP_04_DCAN2	PBISTALGO_MAPCOLUMN_2PORT	96.4000
PBIST_RAMGROUP_04_DCAN2	PBISTALGO_PRECHARGE_2PORT	74.1455
PBIST_RAMGROUP_04_DCAN2	PBISTALGO_DTXN2_2PORT	108.1673
PBIST_RAMGROUP_04_DCAN2	PBISTALGO_Pmos_OPEN_2PORT	247.6591
PBIST_RAMGROUP_04_DCAN2	PBISTALGO_FLIP10_2PORT	67.6727
PBIST_RAMGROUP_04_DCAN2	PBISTALGO_IDDQ_2PORT	29.2455
PBIST_RAMGROUP_04_DCAN2	PBISTALGO_RETENTION_2PORT	29.2455
PBIST_RAMGROUP_04_DCAN2	PBISTALGO_IDDQ2_2PORT	29.1827
PBIST_RAMGROUP_04_DCAN2	PBISTALGO_RETENTION2_2PORT	29.2455
PBIST_RAMGROUP_04_DCAN2	PBISTALGO_IDDQROWSTRIPE_2PORT	29.6455
PBIST_RAMGROUP_04_DCAN2	PBISTALGO_IDDQROWSTRIPE2_2PORT	29.6600
PBIST_RAMGROUP_05_DCAN3	PBISTALGO_MARCH13N_RED_2PORT	304.5491
PBIST_RAMGROUP_05_DCAN3	PBISTALGO_DOWN1A_RED_2PORT	81.0273
PBIST_RAMGROUP_05_DCAN3	PBISTALGO_MAPCOLUMN_2PORT	96.4000
PBIST_RAMGROUP_05_DCAN3	PBISTALGO_PRECHARGE_2PORT	74.1455
PBIST_RAMGROUP_05_DCAN3	PBISTALGO_DTXN2_2PORT	108.1673
PBIST_RAMGROUP_05_DCAN3	PBISTALGO_Pmos_OPEN_2PORT	247.8345
PBIST_RAMGROUP_05_DCAN3	PBISTALGO_FLIP10_2PORT	67.6727
PBIST_RAMGROUP_05_DCAN3	PBISTALGO_IDDQ_2PORT	29.2455
PBIST_RAMGROUP_05_DCAN3	PBISTALGO_RETENTION_2PORT	29.2455
PBIST_RAMGROUP_05_DCAN3	PBISTALGO_IDDQ2_2PORT	29.2600
PBIST_RAMGROUP_05_DCAN3	PBISTALGO_RETENTION2_2PORT	29.2455
PBIST_RAMGROUP_05_DCAN3	PBISTALGO_IDDQROWSTRIPE_2PORT	29.6455
PBIST_RAMGROUP_05_DCAN3	PBISTALGO_IDDQROWSTRIPE2_2PORT	29.6455
PBIST_RAMGROUP_07_MIBSPI1	PBISTALGO_MARCH13N_RED_2PORT	362.7627
PBIST_RAMGROUP_07_MIBSPI1	PBISTALGO_DOWN1A_RED_2PORT	87.9000
PBIST_RAMGROUP_07_MIBSPI1	PBISTALGO_MAPCOLUMN_2PORT	108.5364

PBIST_RAMGROUP_07_MIBSPI1	PBISTALGO_PRECHARGE_2PORT	79.4168
PBIST_RAMGROUP_07_MIBSPI1	PBISTALGO_DTXN2_2PORT	161.9505
PBIST_RAMGROUP_07_MIBSPI1	PBISTALGO_PMOS_OPEN_2PORT	348.1818
PBIST_RAMGROUP_07_MIBSPI1	PBISTALGO_FLIP10_2PORT	78.1909
PBIST_RAMGROUP_07_MIBSPI1	PBISTALGO_IDDQ_2PORT	26.8182
PBIST_RAMGROUP_07_MIBSPI1	PBISTALGO_RETENTION_2PORT	16.1727
PBIST_RAMGROUP_07_MIBSPI1	PBISTALGO_IDDQ2_2PORT	26.8286
PBIST_RAMGROUP_07_MIBSPI1	PBISTALGO_RETENTION2_2PORT	16.1727
PBIST_RAMGROUP_07_MIBSPI1	PBISTALGO_IDDQROWSTRIPE_2PORT	27.2141
PBIST_RAMGROUP_07_MIBSPI1	PBISTALGO_IDDQROWSTRIPE2_2PORT	27.2182
PBIST_RAMGROUP_08_MIBSPI3	PBISTALGO_MARCH13N_RED_2PORT	362.7555
PBIST_RAMGROUP_08_MIBSPI3	PBISTALGO_DOWN1A_RED_2PORT	87.9000
PBIST_RAMGROUP_08_MIBSPI3	PBISTALGO_MAPCOLUMN_2PORT	108.5364
PBIST_RAMGROUP_08_MIBSPI3	PBISTALGO_PRECHARGE_2PORT	79.4091
PBIST_RAMGROUP_08_MIBSPI3	PBISTALGO_DTXN2_2PORT	161.9582
PBIST_RAMGROUP_08_MIBSPI3	PBISTALGO_PMOS_OPEN_2PORT	348.1818
PBIST_RAMGROUP_08_MIBSPI3	PBISTALGO_FLIP10_2PORT	78.1909
PBIST_RAMGROUP_08_MIBSPI3	PBISTALGO_IDDQ_2PORT	26.8182
PBIST_RAMGROUP_08_MIBSPI3	PBISTALGO_RETENTION_2PORT	16.1077
PBIST_RAMGROUP_08_MIBSPI3	PBISTALGO_IDDQ2_2PORT	26.8323
PBIST_RAMGROUP_08_MIBSPI3	PBISTALGO_RETENTION2_2PORT	16.1000
PBIST_RAMGROUP_08_MIBSPI3	PBISTALGO_IDDQROWSTRIPE_2PORT	27.2182
PBIST_RAMGROUP_08_MIBSPI3	PBISTALGO_IDDQROWSTRIPE2_2PORT	27.2182
PBIST_RAMGROUP_09_MIBSPI5	PBISTALGO_MARCH13N_RED_2PORT	362.7555
PBIST_RAMGROUP_09_MIBSPI5	PBISTALGO_DOWN1A_RED_2PORT	87.9000
PBIST_RAMGROUP_09_MIBSPI5	PBISTALGO_MAPCOLUMN_2PORT	108.5364
PBIST_RAMGROUP_09_MIBSPI5	PBISTALGO_PRECHARGE_2PORT	79.4091
PBIST_RAMGROUP_09_MIBSPI5	PBISTALGO_DTXN2_2PORT	161.9509
PBIST_RAMGROUP_09_MIBSPI5	PBISTALGO_PMOS_OPEN_2PORT	348.1818
PBIST_RAMGROUP_09_MIBSPI5	PBISTALGO_FLIP10_2PORT	78.1909
PBIST_RAMGROUP_09_MIBSPI5	PBISTALGO_IDDQ_2PORT	26.8182
PBIST_RAMGROUP_09_MIBSPI5	PBISTALGO_RETENTION_2PORT	16.1000
PBIST_RAMGROUP_09_MIBSPI5	PBISTALGO_IDDQ2_2PORT	26.8400
PBIST_RAMGROUP_09_MIBSPI5	PBISTALGO_RETENTION2_2PORT	16.1000
PBIST_RAMGROUP_09_MIBSPI5	PBISTALGO_IDDQROWSTRIPE_2PORT	27.2182
PBIST_RAMGROUP_09_MIBSPI5	PBISTALGO_IDDQROWSTRIPE2_2PORT	27.2259
PBIST_RAMGROUP_11_MIBADC1	PBISTALGO_MARCH13N_RED_2PORT	71.4677
PBIST_RAMGROUP_11_MIBADC1	PBISTALGO_DOWN1A_RED_2PORT	28.4364
PBIST_RAMGROUP_11_MIBADC1	PBISTALGO_MAPCOLUMN_2PORT	31.2636
PBIST_RAMGROUP_11_MIBADC1	PBISTALGO_PRECHARGE_2PORT	27.6273
PBIST_RAMGROUP_11_MIBADC1	PBISTALGO_DTXN2_2PORT	37.6709
PBIST_RAMGROUP_11_MIBADC1	PBISTALGO_PMOS_OPEN_2PORT	56.2709
PBIST_RAMGROUP_11_MIBADC1	PBISTALGO_FLIP10_2PORT	24.3909
PBIST_RAMGROUP_11_MIBADC1	PBISTALGO_IDDQ_2PORT	17.9182
PBIST_RAMGROUP_11_MIBADC1	PBISTALGO_RETENTION_2PORT	17.9182
PBIST_RAMGROUP_11_MIBADC1	PBISTALGO_IDDQ2_2PORT	17.9327
PBIST_RAMGROUP_11_MIBADC1	PBISTALGO_RETENTION2_2PORT	17.9182
PBIST_RAMGROUP_11_MIBADC1	PBISTALGO_IDDQROWSTRIPE_2PORT	17.9182
PBIST_RAMGROUP_11_MIBADC1	PBISTALGO_IDDQROWSTRIPE2_2PORT	17.9182
PBIST_RAMGROUP_12_DMA	PBISTALGO_MARCH13N_RED_2PORT	152.2245

PBIST_RAMGROUP_12_DMA	PBISTALGO_DOWN1A_RED_2PORT	50.6273
PBIST_RAMGROUP_12_DMA	PBISTALGO_MAPCOLUMN_2PORT	56.2909
PBIST_RAMGROUP_12_DMA	PBISTALGO_PRECHARGE_2PORT	47.8077
PBIST_RAMGROUP_12_DMA	PBISTALGO_DTXN2_2PORT	60.3523
PBIST_RAMGROUP_12_DMA	PBISTALGO_PMOS_OPEN_SLICE1_2POR	79.7500
PBIST_RAMGROUP_12_DMA	PBISTALGO_PMOS_OPEN_SLICE2_1POR	42.5609
PBIST_RAMGROUP_12_DMA	PBISTALGO_FLIP10_2PORT	39.3000
PBIST_RAMGROUP_12_DMA	PBISTALGO_IDDQ_2PORT	25.1455
PBIST_RAMGROUP_12_DMA	PBISTALGO_RETENTION_2PORT	25.1455
PBIST_RAMGROUP_12_DMA	PBISTALGO_IDDQ2_2PORT	25.0800
PBIST_RAMGROUP_12_DMA	PBISTALGO_RETENTION2_2PORT	25.1455
PBIST_RAMGROUP_12_DMA	PBISTALGO_IDDQROWSTRIPE_2PORT	25.1455
PBIST_RAMGROUP_12_DMA	PBISTALGO_IDDQROWSTRIPE2_2PORT	25.1455
PBIST_RAMGROUP_13_N2HET1	PBISTALGO_MARCH13N_RED_2PORT	414.1300
PBIST_RAMGROUP_13_N2HET1	PBISTALGO_DOWN1A_RED_2PORT	112.5818
PBIST_RAMGROUP_13_N2HET1	PBISTALGO_MAPCOLUMN_2PORT	132.8091
PBIST_RAMGROUP_13_N2HET1	PBISTALGO_PRECHARGE_2PORT	104.4909
PBIST_RAMGROUP_13_N2HET1	PBISTALGO_DTXN2_2PORT	146.0564
PBIST_RAMGROUP_13_N2HET1	PBISTALGO_PMOS_OPEN_SLICE1_2POR	240.5682
PBIST_RAMGROUP_13_N2HET1	PBISTALGO_PMOS_OPEN_SLICE2_1POR	72.5273
PBIST_RAMGROUP_13_N2HET1	PBISTALGO_FLIP10_2PORT	88.3091
PBIST_RAMGROUP_13_N2HET1	PBISTALGO_IDDQ_2PORT	40.1636
PBIST_RAMGROUP_13_N2HET1	PBISTALGO_RETENTION_2PORT	40.5805
PBIST_RAMGROUP_13_N2HET1	PBISTALGO_IDDQ2_2PORT	40.0977
PBIST_RAMGROUP_13_N2HET1	PBISTALGO_RETENTION2_2PORT	40.5727
PBIST_RAMGROUP_13_N2HET1	PBISTALGO_IDDQROWSTRIPE_2PORT	40.9727
PBIST_RAMGROUP_13_N2HET1	PBISTALGO_IDDQROWSTRIPE2_2PORT	40.9727
PBIST_RAMGROUP_14_HETTU1	PBISTALGO_MARCH13N_RED_2PORT	134.5918
PBIST_RAMGROUP_14_HETTU1	PBISTALGO_DOWN1A_RED_2PORT	49.4727
PBIST_RAMGROUP_14_HETTU1	PBISTALGO_MAPCOLUMN_2PORT	54.3273
PBIST_RAMGROUP_14_HETTU1	PBISTALGO_PRECHARGE_2PORT	47.8545
PBIST_RAMGROUP_14_HETTU1	PBISTALGO_DTXN2_2PORT	55.8800
PBIST_RAMGROUP_14_HETTU1	PBISTALGO_PMOS_OPEN_2PORT	76.7636
PBIST_RAMGROUP_14_HETTU1	PBISTALGO_FLIP10_2PORT	36.5273
PBIST_RAMGROUP_14_HETTU1	PBISTALGO_IDDQ_2PORT	26.4091
PBIST_RAMGROUP_14_HETTU1	PBISTALGO_RETENTION_2PORT	26.8182
PBIST_RAMGROUP_14_HETTU1	PBISTALGO_IDDQ2_2PORT	26.4336
PBIST_RAMGROUP_14_HETTU1	PBISTALGO_RETENTION2_2PORT	26.8182
PBIST_RAMGROUP_14_HETTU1	PBISTALGO_IDDQROWSTRIPE_2PORT	26.8182
PBIST_RAMGROUP_14_HETTU1	PBISTALGO_IDDQROWSTRIPE2_2PORT	26.8259
PBIST_RAMGROUP_18_MIBADC2	PBISTALGO_MARCH13N_RED_2PORT	71.4677
PBIST_RAMGROUP_18_MIBADC2	PBISTALGO_DOWN1A_RED_2PORT	28.4364
PBIST_RAMGROUP_18_MIBADC2	PBISTALGO_MAPCOLUMN_2PORT	31.2636
PBIST_RAMGROUP_18_MIBADC2	PBISTALGO_PRECHARGE_2PORT	27.6273
PBIST_RAMGROUP_18_MIBADC2	PBISTALGO_DTXN2_2PORT	37.6709
PBIST_RAMGROUP_18_MIBADC2	PBISTALGO_PMOS_OPEN_2PORT	56.2545
PBIST_RAMGROUP_18_MIBADC2	PBISTALGO_FLIP10_2PORT	24.3909
PBIST_RAMGROUP_18_MIBADC2	PBISTALGO_IDDQ_2PORT	17.9182
PBIST_RAMGROUP_18_MIBADC2	PBISTALGO_RETENTION_2PORT	17.9182
PBIST_RAMGROUP_18_MIBADC2	PBISTALGO_IDDQ2_2PORT	17.9327

PBIST_RAMGROUP_18_MIBADC2	PBISTALGO_RETENTION2_2PORT	17.9182
PBIST_RAMGROUP_18_MIBADC2	PBISTALGO_IDDQROWSTRIPE_2PORT	17.9182
PBIST_RAMGROUP_18_MIBADC2	PBISTALGO_IDDQROWSTRIPE2_2PORT	17.9182
PBIST_RAMGROUP_19_N2HET2	PBISTALGO_MARCH13N_RED_2PORT	414.1382
PBIST_RAMGROUP_19_N2HET2	PBISTALGO_DOWN1A_RED_2PORT	112.5818
PBIST_RAMGROUP_19_N2HET2	PBISTALGO_MAPCOLUMN_2PORT	132.8091
PBIST_RAMGROUP_19_N2HET2	PBISTALGO_PRECHARGE_2PORT	104.4986
PBIST_RAMGROUP_19_N2HET2	PBISTALGO_DTXN2_2PORT	146.0886
PBIST_RAMGROUP_19_N2HET2	PBISTALGO_PMOS_OPEN_SLICE1_2POR	240.5759
PBIST_RAMGROUP_19_N2HET2	PBISTALGO_PMOS_OPEN_SLICE2_1POR	72.5432
PBIST_RAMGROUP_19_N2HET2	PBISTALGO_FLIP10_2PORT	88.3091
PBIST_RAMGROUP_19_N2HET2	PBISTALGO_IDDQ_2PORT	40.1636
PBIST_RAMGROUP_19_N2HET2	PBISTALGO_RETENTION_2PORT	40.5727
PBIST_RAMGROUP_19_N2HET2	PBISTALGO_IDDQ2_2PORT	40.0982
PBIST_RAMGROUP_19_N2HET2	PBISTALGO_RETENTION2_2PORT	40.5727
PBIST_RAMGROUP_19_N2HET2	PBISTALGO_IDDQROWSTRIPE_2PORT	40.9727
PBIST_RAMGROUP_19_N2HET2	PBISTALGO_IDDQROWSTRIPE2_2PORT	40.9727
PBIST_RAMGROUP_20_HETTU2	PBISTALGO_MARCH13N_RED_2PORT	134.5918
PBIST_RAMGROUP_20_HETTU2	PBISTALGO_DOWN1A_RED_2PORT	49.4727
PBIST_RAMGROUP_20_HETTU2	PBISTALGO_MAPCOLUMN_2PORT	54.3273
PBIST_RAMGROUP_20_HETTU2	PBISTALGO_PRECHARGE_2PORT	47.8545
PBIST_RAMGROUP_20_HETTU2	PBISTALGO_DTXN2_2PORT	55.8473
PBIST_RAMGROUP_20_HETTU2	PBISTALGO_PMOS_OPEN_2PORT	76.7636
PBIST_RAMGROUP_20_HETTU2	PBISTALGO_FLIP10_2PORT	36.5273
PBIST_RAMGROUP_20_HETTU2	PBISTALGO_IDDQ_2PORT	26.4091
PBIST_RAMGROUP_20_HETTU2	PBISTALGO_RETENTION_2PORT	26.8259
PBIST_RAMGROUP_20_HETTU2	PBISTALGO_IDDQ2_2PORT	26.4250
PBIST_RAMGROUP_20_HETTU2	PBISTALGO_RETENTION2_2PORT	26.8182
PBIST_RAMGROUP_20_HETTU2	PBISTALGO_IDDQROWSTRIPE_2PORT	26.8182
PBIST_RAMGROUP_20_HETTU2	PBISTALGO_IDDQROWSTRIPE2_2PORT	26.8182
PBIST_RAMGROUP_23_ETHERNET1	PBISTALGO_MARCH13N_RED_2PORT	129.3300
PBIST_RAMGROUP_23_ETHERNET1	PBISTALGO_DOWN1A_RED_2PORT	43.0000
PBIST_RAMGROUP_23_ETHERNET1	PBISTALGO_MAPCOLUMN_2PORT	48.2545
PBIST_RAMGROUP_23_ETHERNET1	PBISTALGO_PRECHARGE_2PORT	40.5727
PBIST_RAMGROUP_23_ETHERNET1	PBISTALGO_DTXN2_2PORT	52.2345
PBIST_RAMGROUP_23_ETHERNET1	PBISTALGO_PMOS_OPEN_SLICE1_2POR	73.4864
PBIST_RAMGROUP_23_ETHERNET1	PBISTALGO_PMOS_OPEN_SLICE2_1POR	34.1000
PBIST_RAMGROUP_23_ETHERNET1	PBISTALGO_FLIP10_2PORT	35.3091
PBIST_RAMGROUP_23_ETHERNET1	PBISTALGO_IDDQ_2PORT	21.9636
PBIST_RAMGROUP_23_ETHERNET1	PBISTALGO_RETENTION_2PORT	21.9636
PBIST_RAMGROUP_23_ETHERNET1	PBISTALGO_IDDQ2_2PORT	21.8655
PBIST_RAMGROUP_23_ETHERNET1	PBISTALGO_RETENTION2_2PORT	21.9636
PBIST_RAMGROUP_23_ETHERNET1	PBISTALGO_IDDQROWSTRIPE_2PORT	21.9636
PBIST_RAMGROUP_23_ETHERNET1	PBISTALGO_IDDQROWSTRIPE2_2PORT	21.9714
PBIST_RAMGROUP_24_ETHERNET2	PBISTALGO_MARCH13N_RED_2PORT	107.9168
PBIST_RAMGROUP_24_ETHERNET2	PBISTALGO_DOWN1A_RED_2PORT	38.9545
PBIST_RAMGROUP_24_ETHERNET2	PBISTALGO_MAPCOLUMN_2PORT	43.8091
PBIST_RAMGROUP_24_ETHERNET2	PBISTALGO_PRECHARGE_2PORT	37.7364
PBIST_RAMGROUP_24_ETHERNET2	PBISTALGO_DTXN2_2PORT	52.6436
PBIST_RAMGROUP_24_ETHERNET2	PBISTALGO_PMOS_OPEN_2PORT	73.2973

PBIST_RAMGROUP_24_ETHERNET2	PBISTALGO_FLIP10_2PORT	31.2636
PBIST_RAMGROUP_24_ETHERNET2	PBISTALGO_IDDQ_2PORT	21.5545
PBIST_RAMGROUP_24_ETHERNET2	PBISTALGO_RETENTION_2PORT	21.5545
PBIST_RAMGROUP_24_ETHERNET2	PBISTALGO_IDDQ2_2PORT	21.5709
PBIST_RAMGROUP_24_ETHERNET2	PBISTALGO_RETENTION2_2PORT	21.5545
PBIST_RAMGROUP_24_ETHERNET2	PBISTALGO_IDDQROWSTRIPE_2PORT	21.9636
PBIST_RAMGROUP_24_ETHERNET2	PBISTALGO_IDDQROWSTRIPE2_2PORT	21.9636
PBIST_RAMGROUP_25_ETHERNET3	PBISTALGO_MAPCOLUMN_1PORT	320.5355
PBIST_RAMGROUP_25_ETHERNET3	PBISTALGO_PRECHARGE_1PORT	208.0545
PBIST_RAMGROUP_25_ETHERNET3	PBISTALGO_DTXN2_1PORT	840.3545
PBIST_RAMGROUP_25_ETHERNET3	PBISTALGO_PMOS_OPEN_1PORT	1920.4986
PBIST_RAMGROUP_25_ETHERNET3	PBISTALGO_FLIP10_1PORT	240.8341
PBIST_RAMGROUP_25_ETHERNET3	PBISTALGO_IDDQ_1PORT	35.7182
PBIST_RAMGROUP_25_ETHERNET3	PBISTALGO_RETENTION_1PORT	36.1182
PBIST_RAMGROUP_25_ETHERNET3	PBISTALGO_IDDQ2_1PORT	35.7182
PBIST_RAMGROUP_25_ETHERNET3	PBISTALGO_RETENTION2_1PORT	36.0527
PBIST_RAMGROUP_25_ETHERNET3	PBISTALGO_IDDQROWSTRIPE_1PORT	36.1182
PBIST_RAMGROUP_25_ETHERNET3	PBISTALGO_IDDQROWSTRIPE2_1PORT	36.1182

Profiling data for SafeTI™ Diagnostic Library API.

Notes: Measurements were made on an RM48 and TMS570LS3137 device, with HCLK = 180 MHz.

Some tests do not generate an ESM event, and hence the time to handler is not available.

Fault injection timings depend on the handling done by application, and hence is not profiled.

Please refer to the API user's guide for details on fault injection.

Timings are indicative, appropriate care should be taken by application when using the data provided here depending on application scenario.

SafeTI Diagnostic Library Test	Timing Measurements (us)
SRAM_ECC_ERROR_FORCING_1BIT	8.661111111
SRAM_ECC_1BIT_FAULT_INJECTION	NA
SRAM_ECC_ERROR_FORCING_2BIT	190.1388889
SRAM_ECC_2BIT_FAULT_INJECT	NA
SRAM_PAR_ADDR_CTRL_SELF_TEST	193.2222222
SRAM_ECC_ERROR_PROFILING	NA
SRAM_ECC_ERROR_PROFILING_FAULT_INJECT	NA
SRAM_RADECODE_DIAGNOSTICS	369.4222222
SRAM_LIVELOCK_DIAGNOSTICS	NA
ADC_SELFTEST_ALL	39.46111111
ADC_SRAM_PARITY_TEST	3.705555556
FEE_ECC_DATA_CORR_MODE	5.816666667
FEE_ECC_SYN_REPORT_MODE	4.211111111
FEE_ECC_MALFUNCTION_MODE1	4.333333333
FEE_ECC_MALFUNCTION_MODE2	5.722222222
FEE_ECC_ADDR_TAG_REG_MODE	NA
FEE_ECC_TEST_MODE_1BIT	6.344444444
FEE_ECC_TEST_MODE_1BIT_FAULT_INJECT	NA
FEE_ECC_TEST_MODE_2BIT	6.327777778
FEE_ECC_TEST_MODE_2BIT_FAULT_INJECT	NA
FLASH_ECC_ADDR_TAG_REG_MODE	NA
FLASH_ADDRESS_ECC_SELF_TEST	NA
FLASH_ADDRESS_ECC_FAULT_INJECT	NA
FLASH_ADDRESS_PARITY_SELF_TEST	189.95
FLASH_ADDRESS_PARITY_FAULT_INJECT	NA
FLASH_ECC_TEST_MODE_1BIT	6.016666667
FLASH_ECC_TEST_MODE_2BIT	368.6222222
FLASH_HARD_ERROR_LIVELOCK	NA
FLASH_ECC_TEST_MODE_2BIT_FAULT_INJECT	1.816666667
PBIST_EXECUTE	NA
PBIST_EXECUTE_OVERRIDE	NA
STC_RUN	NA
STC_COMPARE_SELFCHK	NA
PSCON_SELF_TEST	2.222222222
PSCON_ERROR_FORCING	2.766666667
PSCON_ERROR_FORCING_FAULT_INJECT	5.961111111
PSCON_SELF_TEST_ERROR_FORCING	2.661111111
PSCON_SELF_TEST_ERROR_FORCING_FAULT_INJECT	NA
PSCON_PMA_TEST	NA

EFUSE_SELF_TEST_AUTOLOAD	NA
EFUSE_SELF_TEST_ECC	6.47222222
EFUSE_SELF_TEST_STUCK_AT_ZERO	184.8277778
CCMR4F_SELF_TEST	NA
CCMR4F_ERROR_FORCING_TEST	NA
CCMR4F_ERROR_FORCING_TEST_FAULT_INJECT	NA
CCMR4F_SELF_TEST_ERROR_FORCING	NA
L2INTERCONNECT_RESERVED_ACCESS	4.63888889
L2INTERCONNECT_UNPRIVILEGED_ACCESS	NA
L3INTERCONNECT_RESERVED_ACCESS	4.69444444
L3INTERCONNECT_UNPRIVILEGED_ACCESS	NA
VIM_SRAM_PARITY_TEST	5.15555556
VIM_SOFTWARE_TEST	369.7333333
DMA_SRAM_PARITY_TEST	5.62777778
DMA_SOFTWARE_TEST	40.94444444
HET_SRAM_PARITY_TEST	5.78888889
HET_ANALOG_LOOPBACK_TEST	50.5666667
HTU_SRAM_PARITY_TEST	5.30555556
MIBSPI_SRAM_PARITY_TEST	6.59444444
MIBSPI_ANALOG_LOOPBACK_TEST	24.7666667
SPI_ANALOG_LOOPBACK_TEST	20.4
CAN_SRAM_PARITY_TEST	6.91111111
CAN_ANALOG_LOOPBACK_TEST	NA
GIO_ANALOG_LOOPBACK_TEST	3.03888889
SCI_ANALOG_LOOPBACK_TEST	1091.37778

Profiling information for PBIST algorithms.

RAM Group	PBIST Algorithm	Profiling measurement (us)
PBIST_RAMGROUP_01_PBIST_ROM	PBISTALGO_TRIPLE_READ_SLOW_READ	292.7556
PBIST_RAMGROUP_01_PBIST_ROM	PBISTALGO_TRIPLE_READ_FAST_READ	110.4778
PBIST_RAMGROUP_02_STC_ROM	PBISTALGO_TRIPLE_READ_SLOW_READ	237.0333
PBIST_RAMGROUP_02_STC_ROM	PBISTALGO_TRIPLE_READ_FAST_READ	92.0556
PBIST_RAMGROUP_03_DCAN1	PBISTALGO_MARCH13N_RED_2PORT	372.5222
PBIST_RAMGROUP_03_DCAN1	PBISTALGO_DOWN1A_RED_2PORT	98.8056
PBIST_RAMGROUP_03_DCAN1	PBISTALGO_MAPCOLUMN_2PORT	115.9778
PBIST_RAMGROUP_03_DCAN1	PBISTALGO_PRECHARGE_2PORT	88.8667
PBIST_RAMGROUP_03_DCAN1	PBISTALGO_DTXN2_2PORT	130.6444
PBIST_RAMGROUP_03_DCAN1	PBISTALGO_FLIP10_2PORT	80.8667
PBIST_RAMGROUP_03_DCAN1	PBISTALGO_IDDQ_2PORT	33.7556
PBIST_RAMGROUP_03_DCAN1	PBISTALGO_RETENTION_2PORT	34.2000
PBIST_RAMGROUP_03_DCAN1	PBISTALGO_IDDQ2_2PORT	33.7556
PBIST_RAMGROUP_03_DCAN1	PBISTALGO_RETENTION2_2PORT	34.2000
PBIST_RAMGROUP_03_DCAN1	PBISTALGO_IDDQROWSTRIPE_2PORT	34.2000
PBIST_RAMGROUP_03_DCAN1	PBISTALGO_IDDQROWSTRIPE2_2PORT	34.2000
PBIST_RAMGROUP_04_DCAN2	PBISTALGO_MARCH13N_RED_2PORT	370.6500
PBIST_RAMGROUP_04_DCAN2	PBISTALGO_DOWN1A_RED_2PORT	97.3111
PBIST_RAMGROUP_04_DCAN2	PBISTALGO_MAPCOLUMN_2PORT	115.9778
PBIST_RAMGROUP_04_DCAN2	PBISTALGO_PRECHARGE_2PORT	88.8667
PBIST_RAMGROUP_04_DCAN2	PBISTALGO_DTXN2_2PORT	130.6444
PBIST_RAMGROUP_04_DCAN2	PBISTALGO_PMOS_OPEN_2PORT	301.4222
PBIST_RAMGROUP_04_DCAN2	PBISTALGO_FLIP10_2PORT	80.8667
PBIST_RAMGROUP_04_DCAN2	PBISTALGO_IDDQ_2PORT	33.7556
PBIST_RAMGROUP_04_DCAN2	PBISTALGO_RETENTION_2PORT	34.2000
PBIST_RAMGROUP_04_DCAN2	PBISTALGO_IDDQ2_2PORT	33.7556
PBIST_RAMGROUP_04_DCAN2	PBISTALGO_RETENTION2_2PORT	34.2000
PBIST_RAMGROUP_04_DCAN2	PBISTALGO_IDDQROWSTRIPE_2PORT	34.2000
PBIST_RAMGROUP_04_DCAN2	PBISTALGO_IDDQROWSTRIPE2_2PORT	34.2000
PBIST_RAMGROUP_05_DCAN3	PBISTALGO_MARCH13N_RED_2PORT	370.6500
PBIST_RAMGROUP_05_DCAN3	PBISTALGO_DOWN1A_RED_2PORT	97.3111
PBIST_RAMGROUP_05_DCAN3	PBISTALGO_MAPCOLUMN_2PORT	115.9778
PBIST_RAMGROUP_05_DCAN3	PBISTALGO_PRECHARGE_2PORT	88.8667
PBIST_RAMGROUP_05_DCAN3	PBISTALGO_DTXN2_2PORT	130.6444
PBIST_RAMGROUP_05_DCAN3	PBISTALGO_PMOS_OPEN_2PORT	301.4222
PBIST_RAMGROUP_05_DCAN3	PBISTALGO_FLIP10_2PORT	80.8667
PBIST_RAMGROUP_05_DCAN3	PBISTALGO_IDDQ_2PORT	33.7556
PBIST_RAMGROUP_05_DCAN3	PBISTALGO_RETENTION_2PORT	34.2000
PBIST_RAMGROUP_05_DCAN3	PBISTALGO_IDDQ2_2PORT	33.7556
PBIST_RAMGROUP_05_DCAN3	PBISTALGO_RETENTION2_2PORT	34.2000
PBIST_RAMGROUP_05_DCAN3	PBISTALGO_IDDQROWSTRIPE_2PORT	34.2000
PBIST_RAMGROUP_05_DCAN3	PBISTALGO_IDDQROWSTRIPE2_2PORT	34.2000
PBIST_RAMGROUP_07_MIBSPI1	PBISTALGO_MARCH13N_RED_2PORT	441.7556
PBIST_RAMGROUP_07_MIBSPI1	PBISTALGO_DOWN1A_RED_2PORT	105.7556
PBIST_RAMGROUP_07_MIBSPI1	PBISTALGO_MAPCOLUMN_2PORT	131.0889

PBIST_RAMGROUP_07_MIBSPI1	PBISTALGO_PRECHARGE_2PORT	95.0889
PBIST_RAMGROUP_07_MIBSPI1	PBISTALGO_DTXN2_2PORT	195.9778
PBIST_RAMGROUP_07_MIBSPI1	PBISTALGO_PMOS_OPEN_2PORT	423.6444
PBIST_RAMGROUP_07_MIBSPI1	PBISTALGO_FLIP10_2PORT	93.7556
PBIST_RAMGROUP_07_MIBSPI1	PBISTALGO_IDDQ_2PORT	31.0889
PBIST_RAMGROUP_07_MIBSPI1	PBISTALGO_RETENTION_2PORT	31.5333
PBIST_RAMGROUP_07_MIBSPI1	PBISTALGO_IDDQ2_2PORT	31.0889
PBIST_RAMGROUP_07_MIBSPI1	PBISTALGO_RETENTION2_2PORT	31.5333
PBIST_RAMGROUP_07_MIBSPI1	PBISTALGO_IDDQROWSTRIPE_2PORT	31.5333
PBIST_RAMGROUP_07_MIBSPI1	PBISTALGO_IDDQROWSTRIPE2_2PORT	31.5333
PBIST_RAMGROUP_08_MIBSPI3	PBISTALGO_MARCH13N_RED_2PORT	441.7556
PBIST_RAMGROUP_08_MIBSPI3	PBISTALGO_DOWN1A_RED_2PORT	105.7556
PBIST_RAMGROUP_08_MIBSPI3	PBISTALGO_MAPCOLUMN_2PORT	131.0889
PBIST_RAMGROUP_08_MIBSPI3	PBISTALGO_PRECHARGE_2PORT	95.0889
PBIST_RAMGROUP_08_MIBSPI3	PBISTALGO_DTXN2_2PORT	195.9778
PBIST_RAMGROUP_08_MIBSPI3	PBISTALGO_PMOS_OPEN_2PORT	423.6500
PBIST_RAMGROUP_08_MIBSPI3	PBISTALGO_FLIP10_2PORT	93.7556
PBIST_RAMGROUP_08_MIBSPI3	PBISTALGO_IDDQ_2PORT	31.0889
PBIST_RAMGROUP_08_MIBSPI3	PBISTALGO_RETENTION_2PORT	31.5333
PBIST_RAMGROUP_08_MIBSPI3	PBISTALGO_IDDQ2_2PORT	31.0889
PBIST_RAMGROUP_08_MIBSPI3	PBISTALGO_RETENTION2_2PORT	31.5333
PBIST_RAMGROUP_08_MIBSPI3	PBISTALGO_IDDQROWSTRIPE_2PORT	31.5333
PBIST_RAMGROUP_08_MIBSPI3	PBISTALGO_IDDQROWSTRIPE2_2PORT	31.5333
PBIST_RAMGROUP_09_MIBSPI5	PBISTALGO_MARCH13N_RED_2PORT	441.7556
PBIST_RAMGROUP_09_MIBSPI5	PBISTALGO_DOWN1A_RED_2PORT	105.7556
PBIST_RAMGROUP_09_MIBSPI5	PBISTALGO_MAPCOLUMN_2PORT	131.0889
PBIST_RAMGROUP_09_MIBSPI5	PBISTALGO_PRECHARGE_2PORT	95.0889
PBIST_RAMGROUP_09_MIBSPI5	PBISTALGO_DTXN2_2PORT	195.9778
PBIST_RAMGROUP_09_MIBSPI5	PBISTALGO_PMOS_OPEN_2PORT	423.6500
PBIST_RAMGROUP_09_MIBSPI5	PBISTALGO_FLIP10_2PORT	93.7556
PBIST_RAMGROUP_09_MIBSPI5	PBISTALGO_IDDQ_2PORT	31.0889
PBIST_RAMGROUP_09_MIBSPI5	PBISTALGO_RETENTION_2PORT	31.5333
PBIST_RAMGROUP_09_MIBSPI5	PBISTALGO_IDDQ2_2PORT	31.0889
PBIST_RAMGROUP_09_MIBSPI5	PBISTALGO_RETENTION2_2PORT	31.5333
PBIST_RAMGROUP_09_MIBSPI5	PBISTALGO_IDDQROWSTRIPE_2PORT	31.5333
PBIST_RAMGROUP_09_MIBSPI5	PBISTALGO_IDDQROWSTRIPE2_2PORT	31.5333
PBIST_RAMGROUP_11_MIBADC1	PBISTALGO_MARCH13N_RED_2PORT	85.7556
PBIST_RAMGROUP_11_MIBADC1	PBISTALGO_DOWN1A_RED_2PORT	32.8667
PBIST_RAMGROUP_11_MIBADC1	PBISTALGO_MAPCOLUMN_2PORT	36.4222
PBIST_RAMGROUP_11_MIBADC1	PBISTALGO_PRECHARGE_2PORT	31.9778
PBIST_RAMGROUP_11_MIBADC1	PBISTALGO_DTXN2_2PORT	44.4222
PBIST_RAMGROUP_11_MIBADC1	PBISTALGO_PMOS_OPEN_2PORT	67.2056
PBIST_RAMGROUP_11_MIBADC1	PBISTALGO_FLIP10_2PORT	27.9778
PBIST_RAMGROUP_11_MIBADC1	PBISTALGO_IDDQ_2PORT	19.9778
PBIST_RAMGROUP_11_MIBADC1	PBISTALGO_RETENTION_2PORT	19.9778
PBIST_RAMGROUP_11_MIBADC1	PBISTALGO_IDDQ2_2PORT	19.9778
PBIST_RAMGROUP_11_MIBADC1	PBISTALGO_RETENTION2_2PORT	19.9778
PBIST_RAMGROUP_11_MIBADC1	PBISTALGO_IDDQROWSTRIPE_2PORT	19.9778
PBIST_RAMGROUP_11_MIBADC1	PBISTALGO_IDDQROWSTRIPE2_2PORT	19.9778
PBIST_RAMGROUP_12_DMA	PBISTALGO_MARCH13N_RED_2PORT	184.3556

PBIST_RAMGROUP_12_DMA	PBISTALGO_DOWN1A_RED_2PORT	59.9111
PBIST_RAMGROUP_12_DMA	PBISTALGO_MAPCOLUMN_2PORT	67.0222
PBIST_RAMGROUP_12_DMA	PBISTALGO_PRECHARGE_2PORT	56.8000
PBIST_RAMGROUP_12_DMA	PBISTALGO_DTXN2_2PORT	72.3556
PBIST_RAMGROUP_12_DMA	PBISTALGO_PMOS_OPEN_SLICE1_2POR	95.8333
PBIST_RAMGROUP_12_DMA	PBISTALGO_PMOS_OPEN_SLICE2_1POR	50.4444
PBIST_RAMGROUP_12_DMA	PBISTALGO_FLIP10_2PORT	46.5778
PBIST_RAMGROUP_12_DMA	PBISTALGO_IDDQ_2PORT	28.8000
PBIST_RAMGROUP_12_DMA	PBISTALGO_RETENTION_2PORT	28.8000
PBIST_RAMGROUP_12_DMA	PBISTALGO_IDDQ2_2PORT	28.8000
PBIST_RAMGROUP_12_DMA	PBISTALGO_RETENTION2_2PORT	28.8000
PBIST_RAMGROUP_12_DMA	PBISTALGO_IDDQROWSTRIPE_2PORT	28.8000
PBIST_RAMGROUP_12_DMA	PBISTALGO_IDDQROWSTRIPE2_2PORT	28.8000
PBIST_RAMGROUP_13_N2HET1	PBISTALGO_MARCH13N_RED_2PORT	504.8667
PBIST_RAMGROUP_13_N2HET1	PBISTALGO_DOWN1A_RED_2PORT	135.9778
PBIST_RAMGROUP_13_N2HET1	PBISTALGO_MAPCOLUMN_2PORT	160.4222
PBIST_RAMGROUP_13_N2HET1	PBISTALGO_PRECHARGE_2PORT	125.7556
PBIST_RAMGROUP_13_N2HET1	PBISTALGO_DTXN2_2PORT	176.8667
PBIST_RAMGROUP_13_N2HET1	PBISTALGO_PMOS_OPEN_SLICE1_2POR	292.2667
PBIST_RAMGROUP_13_N2HET1	PBISTALGO_PMOS_OPEN_SLICE2_1POR	86.8222
PBIST_RAMGROUP_13_N2HET1	PBISTALGO_FLIP10_2PORT	106.2000
PBIST_RAMGROUP_13_N2HET1	PBISTALGO_IDDQ_2PORT	47.0889
PBIST_RAMGROUP_13_N2HET1	PBISTALGO_RETENTION_2PORT	47.5333
PBIST_RAMGROUP_13_N2HET1	PBISTALGO_IDDQ2_2PORT	47.0889
PBIST_RAMGROUP_13_N2HET1	PBISTALGO_RETENTION2_2PORT	47.5333
PBIST_RAMGROUP_13_N2HET1	PBISTALGO_IDDQROWSTRIPE_2PORT	47.9778
PBIST_RAMGROUP_13_N2HET1	PBISTALGO_IDDQROWSTRIPE2_2PORT	47.9778
PBIST_RAMGROUP_14_HETTU1	PBISTALGO_MARCH13N_RED_2PORT	162.6444
PBIST_RAMGROUP_14_HETTU1	PBISTALGO_DOWN1A_RED_2PORT	58.6444
PBIST_RAMGROUP_14_HETTU1	PBISTALGO_MAPCOLUMN_2PORT	64.8667
PBIST_RAMGROUP_14_HETTU1	PBISTALGO_PRECHARGE_2PORT	56.8667
PBIST_RAMGROUP_14_HETTU1	PBISTALGO_DTXN2_2PORT	66.6444
PBIST_RAMGROUP_14_HETTU1	PBISTALGO_PMOS_OPEN_2PORT	92.0944
PBIST_RAMGROUP_14_HETTU1	PBISTALGO_FLIP10_2PORT	42.6444
PBIST_RAMGROUP_14_HETTU1	PBISTALGO_IDDQ_2PORT	30.6444
PBIST_RAMGROUP_14_HETTU1	PBISTALGO_RETENTION_2PORT	31.0889
PBIST_RAMGROUP_14_HETTU1	PBISTALGO_IDDQ2_2PORT	30.6444
PBIST_RAMGROUP_14_HETTU1	PBISTALGO_RETENTION2_2PORT	31.0889
PBIST_RAMGROUP_14_HETTU1	PBISTALGO_IDDQROWSTRIPE_2PORT	31.0889
PBIST_RAMGROUP_14_HETTU1	PBISTALGO_IDDQROWSTRIPE2_2PORT	31.0889
PBIST_RAMGROUP_18_MIBADC2	PBISTALGO_MARCH13N_RED_2PORT	85.7556
PBIST_RAMGROUP_18_MIBADC2	PBISTALGO_DOWN1A_RED_2PORT	32.8667
PBIST_RAMGROUP_18_MIBADC2	PBISTALGO_MAPCOLUMN_2PORT	36.4222
PBIST_RAMGROUP_18_MIBADC2	PBISTALGO_PRECHARGE_2PORT	31.9778
PBIST_RAMGROUP_18_MIBADC2	PBISTALGO_DTXN2_2PORT	44.4222
PBIST_RAMGROUP_18_MIBADC2	PBISTALGO_PMOS_OPEN_2PORT	67.2056
PBIST_RAMGROUP_18_MIBADC2	PBISTALGO_FLIP10_2PORT	27.9778
PBIST_RAMGROUP_18_MIBADC2	PBISTALGO_IDDQ_2PORT	19.9778
PBIST_RAMGROUP_18_MIBADC2	PBISTALGO_RETENTION_2PORT	19.9778
PBIST_RAMGROUP_18_MIBADC2	PBISTALGO_IDDQ2_2PORT	19.9778

PBIST_RAMGROUP_18_MIBADC2	PBISTALGO_RETENTION2_2PORT	19.9778
PBIST_RAMGROUP_18_MIBADC2	PBISTALGO_IDDQROWSTRIPE_2PORT	19.9778
PBIST_RAMGROUP_18_MIBADC2	PBISTALGO_IDDQROWSTRIPE2_2PORT	19.9778
PBIST_RAMGROUP_19_N2HET2	PBISTALGO_MARCH13N_RED_2PORT	504.8667
PBIST_RAMGROUP_19_N2HET2	PBISTALGO_DOWN1A_RED_2PORT	135.9778
PBIST_RAMGROUP_19_N2HET2	PBISTALGO_MAPCOLUMN_2PORT	160.4222
PBIST_RAMGROUP_19_N2HET2	PBISTALGO_PRECHARGE_2PORT	125.7556
PBIST_RAMGROUP_19_N2HET2	PBISTALGO_DTXN2_2PORT	176.8667
PBIST_RAMGROUP_19_N2HET2	PBISTALGO_PMOS_OPEN_SLICE1_2POR	292.2667
PBIST_RAMGROUP_19_N2HET2	PBISTALGO_PMOS_OPEN_SLICE2_1POR	86.8222
PBIST_RAMGROUP_19_N2HET2	PBISTALGO_FLIP10_2PORT	106.2000
PBIST_RAMGROUP_19_N2HET2	PBISTALGO_IDDQ_2PORT	47.0889
PBIST_RAMGROUP_19_N2HET2	PBISTALGO_RETENTION_2PORT	47.5333
PBIST_RAMGROUP_19_N2HET2	PBISTALGO_IDDQ2_2PORT	47.0889
PBIST_RAMGROUP_19_N2HET2	PBISTALGO_RETENTION2_2PORT	47.5333
PBIST_RAMGROUP_19_N2HET2	PBISTALGO_IDDQROWSTRIPE_2PORT	47.9778
PBIST_RAMGROUP_19_N2HET2	PBISTALGO_IDDQROWSTRIPE2_2PORT	47.9778
PBIST_RAMGROUP_20_HETTU2	PBISTALGO_MARCH13N_RED_2PORT	162.6444
PBIST_RAMGROUP_20_HETTU2	PBISTALGO_DOWN1A_RED_2PORT	58.6444
PBIST_RAMGROUP_20_HETTU2	PBISTALGO_MAPCOLUMN_2PORT	64.8667
PBIST_RAMGROUP_20_HETTU2	PBISTALGO_PRECHARGE_2PORT	56.8667
PBIST_RAMGROUP_20_HETTU2	PBISTALGO_DTXN2_2PORT	66.6444
PBIST_RAMGROUP_20_HETTU2	PBISTALGO_PMOS_OPEN_2PORT	92.0944
PBIST_RAMGROUP_20_HETTU2	PBISTALGO_FLIP10_2PORT	42.6444
PBIST_RAMGROUP_20_HETTU2	PBISTALGO_IDDQ_2PORT	30.6444
PBIST_RAMGROUP_20_HETTU2	PBISTALGO_RETENTION_2PORT	31.0889
PBIST_RAMGROUP_20_HETTU2	PBISTALGO_IDDQ2_2PORT	30.6444
PBIST_RAMGROUP_20_HETTU2	PBISTALGO_RETENTION2_2PORT	31.0889
PBIST_RAMGROUP_20_HETTU2	PBISTALGO_IDDQROWSTRIPE_2PORT	31.0889
PBIST_RAMGROUP_20_HETTU2	PBISTALGO_IDDQROWSTRIPE2_2PORT	31.0889
PBIST_RAMGROUP_23_ETHERNET1	PBISTALGO_MARCH13N_RED_2PORT	156.4222
PBIST_RAMGROUP_23_ETHERNET1	PBISTALGO_DOWN1A_RED_2PORT	50.6444
PBIST_RAMGROUP_23_ETHERNET1	PBISTALGO_MAPCOLUMN_2PORT	57.3111
PBIST_RAMGROUP_23_ETHERNET1	PBISTALGO_PRECHARGE_2PORT	47.9778
PBIST_RAMGROUP_23_ETHERNET1	PBISTALGO_DTXN2_2PORT	61.7556
PBIST_RAMGROUP_23_ETHERNET1	PBISTALGO_PMOS_OPEN_SLICE1_2POR	88.2556
PBIST_RAMGROUP_23_ETHERNET1	PBISTALGO_PMOS_OPEN_SLICE2_1POR	40.0000
PBIST_RAMGROUP_23_ETHERNET1	PBISTALGO_FLIP10_2PORT	41.3111
PBIST_RAMGROUP_23_ETHERNET1	PBISTALGO_IDDQ_2PORT	24.8667
PBIST_RAMGROUP_23_ETHERNET1	PBISTALGO_RETENTION_2PORT	24.8667
PBIST_RAMGROUP_23_ETHERNET1	PBISTALGO_IDDQ2_2PORT	24.8667
PBIST_RAMGROUP_23_ETHERNET1	PBISTALGO_RETENTION2_2PORT	24.8667
PBIST_RAMGROUP_23_ETHERNET1	PBISTALGO_IDDQROWSTRIPE_2PORT	25.3111
PBIST_RAMGROUP_23_ETHERNET1	PBISTALGO_IDDQROWSTRIPE2_2PORT	25.3111
PBIST_RAMGROUP_24_ETHERNET2	PBISTALGO_MARCH13N_RED_2PORT	130.6444
PBIST_RAMGROUP_24_ETHERNET2	PBISTALGO_DOWN1A_RED_2PORT	45.7556
PBIST_RAMGROUP_24_ETHERNET2	PBISTALGO_MAPCOLUMN_2PORT	51.9778
PBIST_RAMGROUP_24_ETHERNET2	PBISTALGO_PRECHARGE_2PORT	44.4222
PBIST_RAMGROUP_24_ETHERNET2	PBISTALGO_DTXN2_2PORT	62.6444
PBIST_RAMGROUP_24_ETHERNET2	PBISTALGO_PMOS_OPEN_2PORT	88.0944

PBIST_RAMGROUP_24_ETHERNET2	PBISTALGO_FLIP10_2PORT	36.4222
PBIST_RAMGROUP_24_ETHERNET2	PBISTALGO_IDDQ_2PORT	24.4222
PBIST_RAMGROUP_24_ETHERNET2	PBISTALGO_RETENTION_2PORT	24.4222
PBIST_RAMGROUP_24_ETHERNET2	PBISTALGO_IDDQ2_2PORT	24.4222
PBIST_RAMGROUP_24_ETHERNET2	PBISTALGO_RETENTION2_2PORT	24.4222
PBIST_RAMGROUP_24_ETHERNET2	PBISTALGO_IDDQROWSTRIPE_2PORT	24.8667
PBIST_RAMGROUP_24_ETHERNET2	PBISTALGO_IDDQROWSTRIPE2_2PORT	24.8667
PBIST_RAMGROUP_25_ETHERNET3	PBISTALGO_MAPCOLUMN_1PORT	389.8389
PBIST_RAMGROUP_25_ETHERNET3	PBISTALGO_PRECHARGE_1PORT	252.5111
PBIST_RAMGROUP_25_ETHERNET3	PBISTALGO_DTXN2_1PORT	1025.8444
PBIST_RAMGROUP_25_ETHERNET3	PBISTALGO_PMOS_OPEN_1PORT	2345.4000
PBIST_RAMGROUP_25_ETHERNET3	PBISTALGO_FLIP10_1PORT	292.5111
PBIST_RAMGROUP_25_ETHERNET3	PBISTALGO_IDDQ_1PORT	42.2889
PBIST_RAMGROUP_25_ETHERNET3	PBISTALGO_RETENTION_1PORT	42.2889
PBIST_RAMGROUP_25_ETHERNET3	PBISTALGO_IDDQ2_1PORT	42.2889
PBIST_RAMGROUP_25_ETHERNET3	PBISTALGO_RETENTION2_1PORT	42.2889
PBIST_RAMGROUP_25_ETHERNET3	PBISTALGO_IDDQROWSTRIPE_1PORT	42.2889
PBIST_RAMGROUP_25_ETHERNET3	PBISTALGO_IDDQROWSTRIPE2_1PORT	42.2889