

Controller 172.16.88.177 2018-01-05-15.54.11.878 Heap Statistics

<PRINTHEAPSTATISTICS>

Shared Heap Statistics

PoolMan Strategy: Optimized

| ElementType | No of elem | Min size | Avr size | Max size | Total size |
|--|------------|----------|----------|----------|------------|
| ID0 | 2 | 24 | 32 | 40 | 64 |
| ListHead | 3050 | 24 | 24 | 32 | 73968 |
| W 2018-01-05 15:53:17.120 The Idle thread has executed less than 1%. | | | | | |
| Element | 7 | | 24 | | 168 |
| Boolean | 67 | 24 | 24 | 32 | 1632 |
| Integer | 111 | 24 | 24 | 32 | 2680 |
| StubObj | 1 | | 24 | | 24 |
| String | 62979 | 24 | 48 | 16408 | 3050928 |
| SystemVariable | 180 | | 56 | | 10080 |
| Item | 644 | | 80 | | 51520 |
| CodedListOfData | 3 | | 40 | | 120 |
| OctetString | 12 | 24 | 3142 | 10024 | 37704 |
| BitString | 36 | 40 | 41 | 48 | 1488 |
| Assoc | 10 | | 368 | | 3680 |
| Transac | 100 | | 56 | | 5600 |
| VarAction | 10 | | 136 | | 1360 |
| AssocDescription | 2 | | 240 | | 480 |
| ObjOpControlBlock | 26 | | 192 | | 4992 |
| UpdateSubSystemsObj | 1 | | 16 | | 16 |
| VAddresses | 1 | | 56 | | 56 |
| EventEnrollment | 2 | | 120 | | 240 |
| AlarmCond | 2932 | | 104 | | 304928 |
| ShortDataBuffer | 8 | | 1048 | | 8384 |
| LongDataBuffer | 7 | | 8216 | | 57512 |
| TransactionInstance | 3 | | 104 | | 312 |
| TPC | 10 | | 56 | | 560 |
| CodeBlock | 781 | 224 | 224 | 232 | 175016 |
| CodeBlockArray | 765 | 24 | 24 | 32 | 18392 |
| MachineCode | 781 | 144 | 975 | 30104 | 761720 |
| POUDefinition | 772 | 56 | 56 | 64 | 43288 |
| POUInstance | 30941 | 48 | 159 | 33472 | 4921520 |
| ExecutionList | 7 | 104 | 106 | 112 | 744 |
| ToArray | 772 | 16 | 163 | 8360 | 125960 |
| ProgramDefinition | 3 | 40 | 2666 | 4808 | 8000 |
| ProgramMemory | 3 | 48 | 51709 | 87888 | 155128 |
| ArrayOfCodeCalls | 4 | 40 | 1584 | 3728 | 6336 |
| CopyTable | 828 | 40 | 56 | 9096 | 46896 |
| InitValueTable | 772 | 32 | 608 | 33400 | 469752 |
| ProgramInstance | 3 | | 360 | | 1080 |
| ScanGroupData | 4 | | 160 | | 640 |
| ScanGroupSystem | 6 | | 432 | | 2592 |
| WatchDogObject | 1 | | 16 | | 16 |
| DownloadInformation | 3 | 40 | 42 | 48 | 128 |

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|----------------------|------|------|--------|-------|--------|
| StringOwnerTable | 2 | 2176 | 2516 | 2856 | 5032 |
| CommTable | 4 | 320 | 32322 | 74528 | 129288 |
| HWBackground | 1 | | 24 | | 24 |
| HWConfigElement | 158 | | 80 | | 12640 |
| HWStatus | 345 | 64 | 64 | 72 | 22088 |
| LongJob | 10 | | 48 | | 480 |
| SemaphoreServer | 1 | | 96 | | 96 |
| DomainInstance | 8 | | 272 | | 2176 |
| OSBEvent | 10 | | 40 | | 400 |
| TaskContextData | 1 | | 96 | | 96 |
| OSBAssocDesc | 1 | | 72 | | 72 |
| UDPSDU | 1 | | 1072 | | 1072 |
| IPInterface | 1 | | 48 | | 48 |
| HWConfiguration | 2 | | 584 | | 1168 |
| HWUnit | 345 | 152 | 152 | 160 | 52544 |
| HashTable | 12 | 32 | 2036 | 4000 | 24440 |
| VarAccess | 1 | | 24 | | 24 |
| HeapObj | 32 | 24 | 393 | 1032 | 12600 |
| HWConnInfo | 183 | | 80 | | 14640 |
| HWModInfo | 183 | 24 | 107 | 640 | 19728 |
| HWRangeInfo | 48 | | 104 | | 4992 |
| HWByteInfo | 549 | 16 | 24 | 240 | 13688 |
| HWConfVariableArray | 8 | 16 | 2488 | 9648 | 19904 |
| HWOnlineTable | 1 | | 131264 | | 131264 |
| HWUnitStateArray | 2 | | 376 | | 752 |
| HWConfigData | 155 | 32 | 521 | 33336 | 80888 |
| HWCodeType | 84 | 80 | 2479 | 5248 | 208312 |
| HWCopyRoutine | 88 | 32 | 49 | 88 | 4344 |
| HWIoGroup | 4 | | 48 | | 192 |
| HWControlSysElement | 1 | | 256 | | 256 |
| IoConnection | 183 | 88 | 88 | 96 | 16120 |
| Task | 4 | | 96 | | 384 |
| HWVarConnApplication | 4 | | 248 | | 992 |
| HWIoGroupElement | 2 | | 32 | | 64 |
| VAControlSysElement | 1 | | 96 | | 96 |
| VarConnApplication | 3 | | 128 | | 384 |
| HWAttributeTable | 4 | 16 | 1374 | 2760 | 5496 |
| HWWatchdog | 8 | | 72 | | 576 |
| Synchroniser | 6 | 24 | 34 | 40 | 208 |
| HWMaster | 9 | | 40 | | 360 |
| SerialDrvAppUser | 1 | | 296 | | 296 |
| TCPinterface | 1 | | 344 | | 344 |
| TCPSDU | 16 | 72 | 72 | 80 | 1160 |
| TCPConnection | 6 | 64 | 65 | 72 | 392 |
| GUIDAndNameTuple | 8275 | 40 | 40 | 48 | 331552 |
| LicenseInformation | 3 | 80 | 82 | 88 | 248 |
| ExportComConfig | 1 | | 56 | | 56 |
| ConditionName | 64 | | 32 | | 2048 |

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|----------------------|-----|-----|-------|-------|---------|
| HWConfigDataExt | 3 | 240 | 261 | 304 | 784 |
| AlarmCondList | 978 | 32 | 32 | 40 | 31400 |
| EventItem | 600 | | 88 | | 52800 |
| GenServer | 3 | | 32 | | 96 |
| VarClient | 1 | | 56 | | 56 |
| VarData | 3 | | 88 | | 264 |
| VarProgInst | 3 | | 64 | | 192 |
| GenClient | 1 | | 56 | | 56 |
| PO | 15 | 32 | 51 | 72 | 768 |
| GenConnection | 1 | | 80 | | 80 |
| DynamicTags | 4 | | 528 | | 2112 |
| CHeap_CallbackFacade | 1 | | 24 | | 24 |
| CRC_CallbackFacade | 1 | | 32 | | 32 |
| IEC1131Value | 4 | 32 | 34 | 40 | 136 |
| GCValue | 3 | 40 | 93 | 128 | 280 |
| IEC1131Type | 3 | 24 | 34 | 40 | 104 |
| PermanentSecureList | 1 | | 40 | | 40 |
| VolatileSecureList | 9 | | 40 | | 360 |
| PermanentSecurePool | 1 | | 64 | | 64 |
| VolatileSecurePool | 1 | | 64 | | 64 |
| TRA | 1 | | 56 | | 56 |
| TRAConObj | 7 | | 72 | | 504 |
| tConnections | 1 | | 96 | | 96 |
| HWCIGIOConnInfo | 183 | 120 | 31706 | 46064 | 5802256 |
| ConfigCallbackFacade | 2 | | 32 | | 64 |
| PhConfigFacade | 9 | | 40 | | 360 |
| PhStatusFacade | 9 | | 40 | | 360 |
| StatusCallbackFacade | 1 | | 32 | | 32 |
| PhCommonFacade | 9 | | 32 | | 288 |
| PhIOAccessFacade | 6 | | 40 | | 240 |
| BinEventMessage | 2 | | 72 | | 144 |
| HWSysData | 158 | 24 | 24 | 32 | 3800 |
| HWAddress | 368 | 24 | 24 | 32 | 8864 |
| CSysClock_CallbackFa | 1 | | 24 | | 24 |
| CSysClock_CallbackFa | 1 | | 32 | | 32 |
| CSysClock_CallbackFa | 2 | | 24 | | 48 |
| NetwClockSynch_Callb | 1 | | 24 | | 24 |
| ExternalEventBuffer | 1 | | 48 | | 48 |
| SimpleEvent | 1 | | 56 | | 56 |
| SignalIdList | 1 | | 32 | | 32 |
| HWTypeIdentifier | 345 | 32 | 33 | 40 | 11504 |
| TaskControlSys | 2 | | 176 | | 352 |
| TaskConnApplic | 3 | | 168 | | 504 |
| TaskRefElement | 4 | | 32 | | 128 |
| TaskOnlineTable | 1 | | 80 | | 80 |
| CCIGDriverCbF | 15 | | 32 | | 480 |
| CDriverFactoryCbF | 1 | | 24 | | 24 |
| CEventMgrCbF | 2 | 16 | 20 | 24 | 40 |

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|----------------------|-----|-------|-------|--------|--------|
| COmegaSysAlEvCallbac | 1 | | 16 | | 16 |
| EventItemElement | 600 | | 24 | | 14400 |
| HWCompiledEntryInfo | 84 | 24 | 258 | 424 | 21672 |
| HWUnitHandler | 9 | | 16 | | 144 |
| HWRedConfigData | 79 | 32 | 34 | 40 | 2704 |
| ErrorHandler | 1 | | 24 | | 24 |
| CNameValueItemHandle | 1 | | 120 | | 120 |
| HWXSPStateInfo | 328 | 40 | 892 | 3536 | 292696 |
| CHWStatusElement | 7 | | 56 | | 392 |
| CCS | 1 | | 16 | | 16 |
| CCSConfig | 1 | | 88 | | 88 |
| ErrorHandlerConfig | 1 | | 24 | | 24 |
| ErrorHandlerConfigIt | 3 | | 48 | | 144 |
| HWDiagInfo | 685 | 48 | 56 | 64 | 38424 |
| HWDiagVal | 17 | 40 | 40 | 56 | 696 |
| HWDiagEnum | 46 | 32 | 37 | 48 | 1728 |
| CPhDiagnostics_Facad | 4 | | 32 | | 128 |
| CDiagnostics | 1 | | 32 | | 32 |
| CPhObject | 4 | | 56 | | 224 |
| CPhDiagnostics_Callb | 1 | | 40 | | 40 |
| ControllerConfig | 2 | | 64 | | 128 |
| IOAccessCallbackFaca | 1 | | 32 | | 32 |
| CPHContainer | 4 | | 216 | | 864 |
| CListOfPHContainers | 1 | | 16 | | 16 |
| PHExe | 4 | 17648 | 99046 | 150736 | 396184 |
| SystemVariableProxy | 1 | | 24 | | 24 |
| OLUState | 2 | | 24 | | 48 |
| PollController | 1 | | 48 | | 48 |
| MainCmdInvoker | 1 | | 40 | | 40 |
| HWConfigDetail | 1 | | 24 | | 24 |
| CVInstances | 3 | | 32 | | 96 |
| ISPInstanceVec | 3 | 16 | 21 | 24 | 64 |
| ISPValueVec | 2 | | 16 | | 32 |
| IAC | 1 | | 240 | | 240 |
| IACApplication | 3 | | 88 | | 264 |
| IACTask | 2 | | 72 | | 144 |
| IACConnection | 5 | 48 | 54 | 56 | 272 |
| IACInVariable | 46 | | 168 | | 7728 |
| IACOutVariable | 36 | | 120 | | 4320 |
| Socket | 1 | | 24 | | 24 |
| IACData | 1 | | 80 | | 80 |
| PHExeGlobalData | 4 | 40 | 166 | 528 | 664 |
| COutDataFrame | 36 | | 48 | | 1728 |
| COutDataFrameBuffer | 72 | 16 | 16 | 24 | 1176 |
| IACClientCallbackFac | 1 | | 24 | | 24 |
| IACInternUnsortedIte | 15 | | 32 | | 480 |
| StrPool | 103 | 24 | 24 | 32 | 2488 |
| External types : | | | | | |

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|-------------------------|------|------|-------|--------|---------|
| rn0 | 1055 | 32 | 1244 | 219488 | 1313104 |
| malloc | 1 | | 29392 | | 29392 |
| UTChandl | 1 | | 32 | | 32 |
| VOSfacade | 4 | 16 | 26 | 56 | 104 |
| CCloningTask | 1 | | 72 | | 72 |
| CRedSysAlEvHandler | 1 | | 32 | | 32 |
| VirtualCEXBusManager | 1 | | 216 | | 216 |
| HeapManager | 1 | | 16 | | 16 |
| MirroredHeapManager | 4 | 24 | 48 | 72 | 192 |
| devhndl | 26 | | 24 | | 624 |
| drvuser | 27 | 24 | 25 | 32 | 696 |
| cpudrv | 3 | 48 | 74 | 128 | 224 |
| serialdrv | 6 | 48 | 96 | 208 | 576 |
| Ethernetdrv | 2 | | 48 | | 96 |
| NIdrv | 1 | | 72 | | 72 |
| PPPHandlerdrv | 2 | 40 | 360 | 680 | 720 |
| CFdrv | 1 | | 80 | | 80 |
| CIGdrv | 21 | 64 | 145 | 240 | 3048 |
| RCUdrv | 1 | | 192 | | 192 |
| CEXCPUdrv | 1 | | 448 | | 448 |
| FLASHLIC | 1 | | 56 | | 56 |
| Modulebus | 6 | 56 | 2500 | 13840 | 15000 |
| BackupCpuDrv | 8 | 16 | 40 | 112 | 320 |
| DynamicElements types : | | | | | |
| CPhIPpin | 1 | | 56 | | 56 |
| CPhIAC_MMS | 1 | | 376 | | 376 |
| PhIAC_MMS | 1 | | 152 | | 152 |
| PhIAC_MMSSysVar | 1 | | 40 | | 40 |
| IACMMSStackHeapTrakE | 99 | 32 | 32 | 40 | 3176 |
| IACMMSStackHeapTrakL | 46 | | 32 | | 1472 |
| CPhModulebus | 1 | | 528 | | 528 |
| CPhModulebus | 3 | 56 | 584 | 1128 | 1752 |
| CModulebus::CModuleb | 1 | | 552 | | 552 |
| CPhModulebus::CSOETa | 10 | | 88 | | 880 |
| CPhCI854 | 36 | 688 | 2161 | 6240 | 77824 |
| CPhCI873PM | 2 | | 1384 | | 2768 |
| INCAif | 1 | | 64 | | 64 |
| Item | 73 | | 48 | | 3504 |
| Transport | 1 | | 32 | | 32 |
| BitString | 8 | | 40 | | 320 |
| UDPSDU | 2 | | 48 | | 96 |
| OctetString | 3 | 1456 | 1482 | 1496 | 4448 |
| PhIAC_ExecStatData | 6 | | 80 | | 480 |
| TPC | 1 | | 48 | | 48 |
| AssocMMS | 1 | | 184 | | 184 |
| Transac | 10 | | 64 | | 640 |
| PhBaseIOConList | 1 | | 5624 | | 5624 |
| PhBase_RR | 1 | | 2704 | | 2704 |

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|-----------------|------|-----|------|-------|----------|
| PhDrvHndl | 2714 | 696 | 1947 | 49968 | 5285320 |
| PhBaseIOConList | 1 | | 5624 | | 5624 |
| PhBase_RR | 1 | | 184 | | 184 |
| PhDrvHndl | 7067 | 280 | 2453 | 2488 | 17339440 |

| | | | | | |
|-------------|--------|----|-----|--------|----------|
| Used blocks | 133749 | 16 | 316 | 219488 | 42294424 |
|-------------|--------|----|-----|--------|----------|

Heap Specific Statistics

| | |
|------------------------------|----------|
| No of list blocks: | 23862 |
| No of listhead blocks: | 3050 |
| Tot size of list blocks: | 24842912 |
| Tot size of listhead blocks: | 73968 |
| Total heap size: | 54140928 |
| Total Mem in use: | 42359960 |
| Memory in use by Atlas: | 39151160 |

Ram Heap Statistics

| | |
|------------------|------------|
| HeapSize | : 51730412 |
| HeapStartAddress | : 13107340 |
| NrOfFreeBytes | : 9421544 |
| NrOfFreeBlocks | : 2192 |
| LargestFreeSize | : 6761256 |
| NrOfCreate | : 133756 |
| NrOfRelease | : 5558087 |
| RestofHeapSize | : 9161512 |
| NrAllocFromRest | : 5691843 |
| MaxUsedMem | : 44910100 |

***** THE HEAP STATISTICS SHOWN ABOVE IS INCOMPLETE. *****

End of Heap Statistics

</PRINTHEAPSTATISTICS>