

Controller 172.16.88.177 2018-01-04-09.24.41.667 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	3045	24	24	32	73368
Element	7		24		168
Boolean	67	24	24	32	1632
Integer	111	24	24	32	2680
StubObj	1		24		24
String	62976	24	48	16408	3049624
SystemVariable	180		56		10080
Item	644		80		51520
CodedListOfData	3		40		120
OctetString	11	24	3408	10024	37496
BitString	33	40	41	48	1360
Assoc	9		368		3312
Transac	90		56		5040
VarAction	10		136		1360
AssocDescription	2		240		480
ObjOpControlBlock	26		192		4992
UpdateSubSystemsObje	1		16		16
VAddresses	1		56		56
EventEnrollment	2		120		240
AlarmCond	2932		104		304928
ShortDataBuffer	8		1048		8384
LongDataBuffer	7		8216		57512
TransactionInstance	2		104		208
TPC	9		56		504
CodeBlock	781	224	224	232	174960
CodeBlockArray	765	24	24	32	18392
MachineCode	781	144	975	30104	761696
POUDefinition	772	56	56	64	43264
POUInstance	30941	48	159	33472	4920520
ExecutionList	7	104	106	112	744
TypeArray	772	16	163	8360	125944
ProgramDefinition	3	40	2666	4808	8000
ProgramMemory	3	48	51709	87888	155128
ArrayOfCodeCalls	4	40	1584	3728	6336
CopyTable	828		40		33120
InitValueTable	772	32	608	33400	469720
ProgramInstance	3		360		1080
ScanGroupData	4	160	162	168	648
ScanGroupSystem	6		432		2592
WatchDogObject	1		16		16
DownloadInformation	3	40	42	48	128
StringOwnerTable	2	2176	2516	2856	5032

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CommTable	4	320	32320	74528	129280
HWBackground	1		24		24
HWConfigElement	158		80		12640
HWStatus	345		64		22080
LongJob	10		48		480
SemaphoreServer	1		96		96
DomainInstance	7		272		1904
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		52440
HashTable	12	32	2036	4000	24440
VarAccess	1		24		24
HeapObj	31	24	403	1032	12504
HWConnInfo	183		80		14640
HWModInfo	183	24	107	640	19720
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	80880
HWCodeType	84	80	2479	5248	208304
HWCopyRoutine	88	32	49	88	4344
HWIoGroup	4		48		192
HWControlSysElement	1		256		256
IoConnection	183		88		16104
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	14	72	72	80	1016
TCPConnection	7	64	66	72	464
GUIDAndNameTuple	8275	40	40	48	331120
LicenseInformation	2		80		160
ExportComConfig	1		56		56
ConditionName	64		32		2048
HWConfigDataExt	3	240	261	304	784

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AlarmCondList	976	32	32	40	31336
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
GValue	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		3792
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		11040
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
COmegaSysAllEvCallbac	1		16		16

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EventItemElement	600		24		14400
HWCompiledEntryInfo	84	24	257	416	21600
HWUnitHandler	9		16		144
HWRedConfigData	79		32		2528
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	55	64	38248
HWDiagVal	17	40	40	56	696
HWDiagEnum	46	32	32	48	1488
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	1184
IACClientCallbackFac	1		24		24
IACInternUnsortedIte	15		32		480
StrPool	103	24	24	32	2488
External types :					
rn0	1043	32	1226	219488	1279368

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malloc	1		29392		29392
UTChandl	1		32		32
VOSfacade	4	16	26	56	104
CCloningTask	1		72		72
CRedSysAIEvHandler	1		32		32
VirtualCEXBusManager	1		216		216
HeapManager	1		16		16
MirroredHeapManager	4	24	48	72	192
devhndl	26		24		624
drvuser	26	24	25	32	664
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	3	40	74	112	224
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
PhDrvHndl	2263	696	1953	49968	4421408

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PhBaseIOConList	1		5624		5624
PhBase_RR	1		3104		3104
PhDrvHndl	6279	1240	2455	2456	15420008

Used blocks	132461	16	297	219488	39459576
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Heap Specific Statistics

No of list blocks:	22596
No of listhead blocks:	3045
Tot size of list blocks:	22045728
Tot size of listhead blocks:	73368
Total heap size:	54140928
Total Mem in use:	39525112
Memory in use by Atlas:	36375544

Ram Heap Statistics

HeapSize	: 51730412
HeapStartAddress	: 13107340
NrOfFreeBytes	: 12254568
NrOfFreeBlocks	: 34
LargestFreeSize	: 12186640
NrOfCreate	: 132489
NrOfRelease	: 4803426
RestofHeapSize	: 14586896
NrAllocFromRest	: 4935915
MaxUsedMem	: 40594156

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

End of Heap Statistics
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