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glue-validator Error Codes

Introduction

The glue-validator[↗] is a tool to validate GLUE 1 and GLUE 2 information published in the BDII. It also validates GLUE 2 information against the EGI profile for GLUE 2[↗]. **The following error codes apply for the EGI profile validation only.**

Support

In case you want to report an incident or you need help for glue-validator errors, please use GGUS[↗] and put `project-grid-info-support@cern.ch` in CC.

Tips

The tables in the following sections contain tips on what can be done to get rid of the corresponding error, warning or info messages. Tips are classified in:

- **Site misconfiguration:** normally implies to review site specific information defined in YAIM or the batch system settings.
- **BDII bugs:** this type of bugs should occur very rarely since they are related to basic LDAP structure or information that it is automatically generated by the BDII or middleware information providers.
- **CE bugs:** the number of jobs in the different job states and any other information coming from the batch system is automatically calculated by the information providers of the CREAM CE.
- **SE bugs:** the total, free and used space capacities of storage data services and shares are automatically calculated by the information providers of dCache, StoRM and DPM.

The meaning of the different types of messages is the following:

- **Error:** Values that are definitely invalid.
- **Warning:** Values that are likely, but not certain, to be wrong.
- **Info:** Values that may be valid but that are unknown or seem wrong to glue-validator.

Known Issues

The Information System team is working very closely with middleware developers to fix bugs in the information providers. This activity is tracked here. Sys admins should not be bothered by information provider errors. The glue-validator contains an option called `--exclude-known-issues` to be able to exclude tests for attributes that are known to be wrongly published by the information providers.

A list of known issues is available in glue-validator \geq 2.0.19. The relevant known issues are marked as `YES` in the `Known Issues` column in the tables below.

Please, note that computing related attributes are still under investigation and new known issues may be added in the next version of glue-validator that will be validated by EGI to become a production Nagios probe.

Attribute Types

There is a general type checking test performed by the glue-validator. This test is not done per attribute but it's the same test for all attributes. For this reason, even if a type automatically published by any of the information providers is wrong, it cannot be included in the known issues, because removing the type

checking test would imply removing it for all attributes.

For the type errors, the sys admin will have to look into more details to the glue-validator output to understand what it is actually wrong. In particular, the following attributes can be manually configured by the sys admin and in case their type is wrong, they should be fixed in the site configuration:

- GLUE2Location attributes
- GLUE2Contact attributes
- GLUE2Domain attributes
- GLUE2ExecutionEnvironment attributes

For more details on the types defined in the EGI profile implementation of the glue-validator, please check: [glue-validator types](#)

Error messages

The follow error messages, raise a CRITICAL error in Nagios:

Error message number	Description	Associated test	Tips
E001	Creation time in the future	test_GLUE2EntityCreationTime_OK	Site misconfigura when the published more than the time where the test is ru your machines to n correct
E002	Obsolete entry	test_GLUE2EntityValidity_OK	Site misconfigura entries (static entri LDIF files and hav GLUE2EntityValid could be related to Update the bdi to get rid of this bug
E003	Wrong share percentage	test_GLUE2EntityOtherInfo_OK	Site misconfigura information is defi variable CE_CAPAB YAIM guide for m define this variable a share should be > sure the percentage defined in CE_CAPA
E004	VO appears more than once in share	test_GLUE2EntityOtherInfo_OK	Site misconfigura information is defi variable CE_CAPAB YAIM guide for m define this variable appears only once
E005	Wrong share format	test_GLUE2EntityOtherInfo_OK	Site misconfigura information is defi variable CE_CAPAB YAIM guide for m define this variable

			variable syntax is c
E006	Wrong attribute format	test_GLUE2EntityOtherInfo_OK	Site misconfigura GLUE2EntityOtherInfo_OK is published by both in an automatic way from the site configuration. If you see this error, please check the configuration information is wrong. If you are not a configuration if appropriate, please report it in GGUS. project-grid-in in CC
E007	Total published shares > 100%	test_GLUE2EntityOtherInfo_OK	Site misconfigura information is defined by the variable CE_CAPABILITIES_YAIM guide for machine. Please define this variable to share percentages of the variable sum up <= 100%
E008	Longitude out of range	test_GLUE2LocationLongitude_OK	Site misconfigura information is defined by the variable SITE_LONGITUDE. The longitude is within the range [-180,180]
E009	Latitude out of range	test_GLUE2LocationLatitude_OK	Site misconfigura information is defined by the variable SITE_LATITUDE. The latitude is within the range [-90,90]
E010	Start time in the future	test_GLUE2EndpointStartTime_OK	Site misconfigura when the published start time is more than the time when the test is running. Please ask your machines to modify the configuration correct
E011	Downtime announcement in the future	test_GLUE2EndpointDowntimeAnnounce_OK	This attribute current value is no. This attribute is not published since downtime has not been taken from GOCD. Please check the time being included in the Issues.
E012	Downtime start time is older than end time	test_GLUE2EndpointDowntimeStart_OK	Not published. This attribute is not being included in the Issues.
E013	Downtime end time is published without a start time	test_GLUE2EndpointDowntimeEnd_OK	
E014	Incoherent number of total capacity	test_GLUE2StorageServiceCapacityTotalSize_OK	SE bug: It checks if the total capacity matches the sum of the different capacity sizes
E015	Incoherent attribute range	test_GLUE2StorageServiceCapacityFreeSize_OK	SE bug: It checks if the free capacity is lower than the total capacity
E016	Incoherent attribute range	test_GLUE2StorageServiceCapacityUsedSize_OK	SE bug: It checks if the used capacity is lower than the total capacity

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E017	Incoherent attribute range	test_GLUE2StorageServiceCapacityReservedSize_OK	SE bug: It checks capacity is lower th
E018	Incoherent number of total share capacity	test_GLUE2StorageShareCapacityTotalSize_OK	SE bug: It checks matches the sum o in the different sha
E019	Incoherent attribute range	test_GLUE2StorageShareCapacityFreeSize_OK	SE bug: It checks share capacity is lo share capacity
E020	Incoherent attribute range	test_GLUE2StorageShareCapacityUsedSize_OK	SE bug: It checks share capacity is lo share capacity
E021	The object class is not valid	test_object_class	BDII bug The LD automatically by th information provid
E022	Default value published	test_GLUE2ComputingShareWaitingJobs_default	Site misconfigura whether a default v published. Check 4 manual ? for more this problem
E023	Default value published	test_GLUE2ComputingShareEstimatedAverageWaitingTime_default	Site misconfigura whether a default v
E024	Default value published	test_GLUE2ComputingShareEstimatedWorstWaitingTime_default	is published. This a automatically calcul scheduler informat relies on the under configuration. Plea system configurati everything is prope
E025	GLUE Schema object hierarchy violation	test_mandatory_object_class	NEW as of glue-va misconfiguration all mandatory obje present. If this is no YAIM configurati error is reported an run fine. Otherwise ticket for further su Information System
E026	Domain Foreign Key not matching GLUE2DomainID in the dn	DomainForeignKey attribute	NEW as of glue-va misconfiguration the Domain ID spe matches the domain attributes present in

Warning messages

The following warning messages, raise a WARNING in Nagios:

Warning message number	Description	Associated test	Comments
W001	Creation time more than one year old	test_GLUE2EntityCreationTime_OK	See the code in E002
W002	GLUE2EntityValidity published when GLUE2EntityCreationTime is not published	test_GLUE2EntityValidity_OK	BDII bug information providers wrong
W003	Unknown profile name	test_GLUE2EntityOtherInfo_OK	BDII bug automatic generated
W004	Incorrect profile version	test_GLUE2EntityOtherInfo_OK	BDII bug automatic generated
W005	Incoherent number of total jobs	test_GLUE2ComputingServiceTotalJobs_OK	CE bug: I whether the attribute n the sum of jobs in the different j
W006	Start time more than two years old	test_GLUE2EndpointStartTime_OK	Site misconfig services th for two ye no upgrad restart are uncommon site should why this c the case
W007	Downtime announce more than one year old	test_GLUE2EndpointDowntimeAnnounce_OK	Downtime attributes
W008	Downtime announcement with no Downtime start published	test_GLUE2EndpointDowntimeAnnounce_checkStart	either not published published
W009	Downtime start time is scheduled more than one year ahead	test_GLUE2EndpointDowntimeStart_OK	used at the moment si downtime
W010	Downtime start time more than one year old	test_GLUE2EndpointDowntimeStart_OK	currently t from GOC
W011	Downtime end time is scheduled more than one year ahead	test_GLUE2EndpointDowntimeEnd_OK	These test the time b included i
W012	Downtime end time is more than one week old	test_GLUE2EndpointDowntimeEnd_OK	Known Is
W013	Incoherent number of total jobs	test_GLUE2ComputingEndpointTotalJobs_OK	CE bug: I whether the attribute n

			the sum of jobs in the different j
W014	Incoherent attribute range	test_GLUE2ComputingShareMinWallTime_OK	Site misconfig It checks v the minim time is low the maxim time. Chec batch syste configurat settings
W015	Attribute out of predefined range	test_GLUE2ComputingShareDefaultWallTime_MaxRange	Site misconfig It checks v the default time is low equal than maximum time. Chec batch syste configurat settings
W016	Attribute out of predefined range	test_GLUE2ComputingShareDefaultWallTime_MinRange	Site misconfig It checks v the default time is hig the minim time. Chec batch syste configurat settings
W017	Incoherent attribute range	test_GLUE2ComputingShareMinCPUTime_OK	Site misconfig It checks v the minim time is low equal than maximum time. Chec batch syste configurat settings
W018	Attribute out of predefined range	test_GLUE2ComputingShareDefaultCPUTime_MaxRange	Site misconfig It checks v the default time is low equal than maximum time. Chec batch syste

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			configurat settings
W019	Attribute out of predefined range	test_GLUE2ComputingShareDefaultCPUTime_MinRange	Site misconfig It checks v the default time is hig the minim time. Chec batch syste configurat settings
W020	Number of total jobs is zero	test_GLUE2ComputingShareMaxTotalJobs_zero	Site misconfig It checks v the maxim number of jobs is zer uses the underlying system configurat Make sure correct and value is de
W021	Attribute out of predefined range	test_GLUE2ComputingShareMaxTotalJobs_OK	Site misconfig It checks v the maxim jobs is hig the maxim running jo maximum jobs. It use underlying system configurat Make sure correct and value is de
W022	Number of jobs is zero	test_GLUE2ComputingShareMaxUserRunningJobs_zero	Site misconfig It checks v the maxim number of running jo zero. It use underlying system configurat Make sure correct and value is de
W023	Incoherent attribute range	test_GLUE2ComputingShareMaxUserRunningJobs_OK	

			<p>Site misconfig</p> <p>it checks v the maxim running jo lower than maximum jobs. It use underlying system configurat Make sure correct and value is de</p>
W024	Number of maximum slots per job is zero	test_GLUE2ComputingShareMaxSlotsPerJob_zero	<p>Site misconfig</p> <p>It checks v the maxim per jobs is uses the underlying system configurat Make sure correct and value is de</p>
W025	Incoherent number of total jobs	test_GLUE2ComputingShareTotalJobs_OK	<p>Site misconfig</p> <p>It checks v this attribu matches th of total job different j states. It u underlying system configurat Make sure correct and value is de Note that get this wa you get E0 E022 first</p>
W026	Memory lower than 100 MB	test_GLUE2ComputingShareMaxMainMemory_MinRange	<p>Site misconfig</p> <p>It checks v the maxim main mem less or equ 100MB. It underlying system configurat</p>

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			Make sure correct and value is de
W027	Incoherent attribute range	test_GLUE2ComputingShareGuaranteedMainMemory_MinRange	Site misconfig It checks v the guaran main mem higher tha maximum memory. I the underl batch syste configurat Make sure correct and value is de
W028	Incoherent attribute range	test_GLUE2ComputingShareMaxVirtualMemory_MinRange	Site misconfig It checks v the maxim virtual me less than t maximum memory. I the underl batch syste configurat Make sure correct and value is de
W029	Incoherent attribute range	test_GLUE2ComputingShareGuaranteedVirtualMemory_MinRange	Site misconfig It checks v the guaran virtual me higher tha maximum memory. I sure it is c and this va defined.
W030	Incoherent attribute range	test_GLUE2ComputingManagerTotalPhysicalCPUs_OK	CE bug: N this is curr not publish the CREA but it is a mandatory attribute. I whether th physical C lower than total logic
W031	Incoherent attribute range	test_GLUE2ComputingManagerTotalSlots_OK	

			CE bug: N this is curr not publish the CREA but it is a recommen attribute. I whether th slots is hig twice the n of logical
W032	Incoherent attribute range	test_GLUE2ComputingManagerSlotsUsedByLocalJobs_OK	CE bug: N this is curr not publish the CREA but it is op attribute. I whether th used by lo are lower total numb slots
W033	Incoherent attribute range	test_GLUE2ComputingManagerSlotsUsedByGridJobs_OK	CE bug: N this is curr not publish the CREA but it is a recommen attribute. I whether th used by gr are lower total numb slots
W034	Mandatory attribute not present	test_mandatory_attributes	BDII bug Informatio providers wrong
W035	Undesirable attribute is present	test_mandatory_attributes	BDII bug Informatio providers wrong
W036	Single valued attribute with more than one value	test_single_valued	BDII bug Informatio providers wrong
W037	Wrong type	test_data_types	BDII bug Informatio providers wrong
W038	Empty attribute	test_empty_attributes	Site misconfig Review yo configurat

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			make sure necessary variables are defined.
W039	Wrong Service ID starting with _	test_GLUE2ServiceID_OK	Site misconfig
W040	Wrong Endpoint ID starting with _	test_GLUE2EndpointID_OK	This is a known issue with the service information provider for BUG:1015. Please, update to the latest version.
W041	Rpm used to publish implementation version does not exist	test_GLUE2EndpointImplementationVersion_OK	BDII bug due to the service information provider to find the version an rpm that is no longer available.
W042	Wrong platform type	test_GLUE2ExecutionEnvironmentPlatform_OK	Site misconfig The platform type is defined in the YAIM variable CE_OS_ARCH. Check the installation guide for more details on how to define this variable and ensure it matches the Platform type.
W043	Wrong OS family	test_GLUE2ExecutionEnvironmentOSFamily_OK	CE bug: The OS family is currently defined in the YAIM variable CE_OS_FAMILY. Check the installation guide for more details on how to define this variable. The variable is currently defined by the CRIC yaim module with the default value linux. If you manually define this variable

			sure it matches the OS Family
W044	Wrong OS name	test_GLUE2ExecutionEnvironmentOSName_OK	Site misconfiguration The OS name is not defined in the YAIM variable CE_OS. Check the YAIM guide for more details on how to define this variable. For the How to publish OSGE guide for more details

Info messages

The following information messages, raise an INFO in Nagios:

Info message number	Description	Associated test	Comments
I001	Unknown Grid Infrastructure name	test_GLUE2EntityOtherInfo_OK	Site misconfiguration check How to publish site information for more details
I002	Unknown configuration tool	test_GLUE2EntityOtherInfo_OK	
I003	Unknown EGI NGI	test_GLUE2EntityOtherInfo_OK	
I004	Incorrect blog URL	test_GLUE2EntityOtherInfo_OK	Site misconfiguration Check that you have provided a correct URL
I005	Incorrect icon URL	test_GLUE2EntityOtherInfo_OK	
I006	Unknown WLCG Tier	test_GLUE2EntityOtherInfo_OK	Site misconfiguration Check How to publish site information for more details
I007	Unknown WLCG Name	test_GLUE2EntityOtherInfo_OK	DEPRECATED as of glue-validator 2.0.2
I008	Incorrect icon WLCG name icon URL	test_GLUE2EntityOtherInfo_OK	Site misconfiguration Check that you have provided a correct URL
I009	Unknown middleware name	test_GLUE2EntityOtherInfo_OK	BDII bug: Value automatically generated
I010	Incorrect middleware version	test_GLUE2EntityOtherInfo_OK	BDII bug: Value automatically generated. Note there is a known issue in FTI tracked in 704 .

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			Despite of this, this has not been marked as a known issue as it affects all services. Dismiss this error if it applies to FTS.
I011	Incorrect DN syntax	test_GLUE2EntityOtherInfo_OK	BDII bug: It checks Host DN syntax. Validator automatically generates
I012	Unknown VO name in share	test_GLUE2EntityOtherInfo_OK	Site misconfiguration: Check that the VO name is correct
I013	Unknown benchmark name in share	test_GLUE2EntityOtherInfo_OK	Site misconfiguration: Check that the benchmark name is correct HEP-SPEC06
I014	Number of jobs higher than 1 million	test_GLUE2ComputingServiceRunningJobs_OK	CE bug: this is a recommended attribute that it is currently not published by the CREAM CE
I015	Number of jobs higher than 1 million	test_GLUE2ComputingServiceWaitingJobs_OK	
I016	Number of jobs higher than 1 million	test_GLUE2ComputingServiceStagingJobs_OK	
I017	Number of jobs higher than 1 million	test_GLUE2ComputingServiceSuspendedJobs_OK	
I018	Number of jobs higher than 1 million	test_GLUE2ComputingServicePreLRMSWaitingJobs_OK	
I019	Issuer CA published as 'unknown'	test_GLUE2EndpointIssuerCA_OK	
I020	Trusted CA published as 'unknown'	test_GLUE2EndpointTrustedCA_OK	
I021	Number of jobs higher than 1 million	test_GLUE2ComputingEndpointRunningJobs_OK	CE bug: this is an optional attribute that is currently not published by the CREAM CE
I022	Number of jobs higher than 1 million	test_GLUE2ComputingEndpointWaitingJobs_OK	
I023	Number of jobs higher than 1 million	test_GLUE2ComputingEndpointStagingJobs_OK	
I024	Number of jobs higher than 1 million	test_GLUE2ComputingEndpointSuspendedJobs_OK	
I025	Number of jobs higher than 1 million	test_GLUE2ComputingEndpointPreLRMSWaitingJobs_OK	
I026		test_GLUE2ComputingShareMaxWallTime_OK	

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	Default value published		Site misconfiguration It checks whether it publishes a default value of 999999999
I027	Default value published	test_GLUE2ComputingShareMaxMultiSlotWallTime_OK	
I028	Default value published	test_GLUE2ComputingShareDefaultWallTime_OK	This value is OK if do not want to define
I029	Default value published	test_GLUE2ComputingShareMaxCPUTime_OK	limit for your queue and therefore you can
I030	Default value published	test_GLUE2ComputingShareMaxTotalCPUTime_OK	ignore this message. Otherwise, if you want
I031	Default value published	test_GLUE2ComputingShareDefaultCPUTime_OK	to define a limit, check your batch system
I032	Default value published	test_GLUE2ComputingShareMaxTotalJobs_default	configuration settings. make sure a proper
I033	Default value published	test_GLUE2ComputingShareMaxRunningJobs_OK	value is defined.
I034	Default value published	test_GLUE2ComputingShareMaxWaitingJobs_OK	
I035	Number of jobs higher than 1 million	test_GLUE2ComputingShareRunningJobs_OK	Site misconfiguration It checks jobs and memory limits. If your
I036	Number of jobs higher than 1 million	test_GLUE2ComputingShareLocalRunningJobs_OK	site publishes values beyond these limits, check whether it is
I037	Number of jobs higher than 1 million	test_GLUE2ComputingShareWaitingJobs_OK	actually correct or not. The glue-validator
I038	Number of jobs higher than 1 million	test_GLUE2ComputingShareLocalWaitingJobs_OK	performs these sanity checks but maybe
I039	Number of jobs higher than 1 million	test_GLUE2ComputingShareSuspendedJobs_OK	values are correct so you can ignore this
I040	Number of jobs higher than 1 million	test_GLUE2ComputingShareLocalSuspendedJobs_OK	message.
I041	Number of jobs higher than 1 million	test_GLUE2ComputingShareStagingJobs_OK	
I042	Number of jobs higher than 1 million	test_GLUE2ComputingSharePreLRMSWaitingJobs_OK	
I043	Memory higher than 100,000 MB	test_GLUE2ComputingShareMaxMainMemory_MaxRange	
I044	Memory higher than 100,000 MB	test_GLUE2ComputingShareGuaranteedMainMemory_MaxRange	
I045	Memory higher than 100,000 MB	test_GLUE2ComputingShareMaxVirtualMemory_MaxRange	
I046	Number of seconds higher	test_GLUE2ComputingShareEstimatedAverageWaitingTime_OK	Site misconfiguration This value is

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	than 1 million		automatically calcul
I047	Number of seconds higher than 1 million	test_GLUE2ComputingShareEstimatedWorstWaitingTime_OK	by the dynamic scheduler information provider using the underlying batch system configuration. The glue-validator performs these sanity checks maybe values are correct so you can ignore this message. Ignore these messages also if you are getting E023 or E024.
I048	Number of slots higher than 1 million	test_GLUE2ComputingShareFreeSlots_OK	
I049	Number of slots higher than 1 million	test_GLUE2ComputingShareUsedSlots_OK	CE bug: this is a mandatory attribute it is currently not published by the CREAM CE
I050	Number of slots higher than 1 million	test_GLUE2ComputingShareRequestedSlots_OK	
I051	Number of logical CPUs lower than 10	test_GLUE2ComputingManagerTotalLogicalCPUs_MinRange	CE bug: this is a mandatory attribute it is currently not published by the CREAM CE
I052	Number of logical CPUs greater than 1 million	test_GLUE2ComputingManagerTotalLogicalCPUs_MaxRange	
I053	Number of physical CPUs lower than 10	test_GLUE2ComputingManagerTotalPhysicalCPUs_MinRange	
I054	Number of logical CPUs greater than 1 million	test_GLUE2ComputingManagerTotalPhysicalCPUs_MaxRange	
I055	Number of total slots lower than 10	test_GLUE2ComputingManagerTotalSlots_MinRange	CE bug: this is a recommended attribute that it is currently not published by the CREAM CE
I056	Number of total slots greater than 1 million	test_GLUE2ComputingManagerTotalSlots_MaxRange	
I057	Total working area greater than 1 million GB	test_GLUE2ComputingManagerWorkingAreaTotal_OK	CE bug: this is a desirable attribute that is currently not published by the CREAM CE
I058	Free working area greater than 1 million GB	test_GLUE2ComputingManagerWorkingAreaFree_OK	
I059	Multi slot working area greater than 1 million GB	test_GLUE2ComputingManagerWorkingAreaMultiSlotTotal_OK	

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I060	Multi slot free working area greater than 1 million GB	test_GLUE2ComputingManagerWorkingAreaMultiSlotFree_OK	
I061	Total cache greater than 1 million GB	test_GLUE2ComputingManagerCacheTotal_OK	
I062	Free cache greater than 1 million GB	test_GLUE2ComputingManagerCacheFree_OK	
I063	Total instances less than 10	test_GLUE2ExecutionEnvironmentTotalInstances_MinRange	CE bug: It checks whether the total instances are less than 10. Total instances are calculated with YAIM variables in the following way: CE_LOGCPU/CE_SMP. However CE_LOGCPU has a different meaning in GLUE 1 and GLUE 2 and the same variable is used to publish both GLUE 1 and GLUE 2
I064	Total instances more than 1 million	test_GLUE2ExecutionEnvironmentTotalInstances_MaxRange	
I065	Incoherent attribute range	test_GLUE2ExecutionEnvironmentUsedInstances_OK	CE bug: this is an optional attribute that is currently not published by the CREAM CE
I066	Incoherent attribute range	test_GLUE2ExecutionEnvironmentUnavailableInstances_OK	
I067	Number of physical CPUs greater than 10	test_GLUE2ExecutionEnvironmentPhysicalCPUs_MaxRange	CE bug: Physical CPUs are defined using the YAIM variable CE_PHYSCPU. However this variable has a different meaning in GLUE 1 and GLUE 2 and the same variable is used to publish both GLUE 1 and GLUE 2
I068	Number of logical CPUs greater than 1000	test_GLUE2ExecutionEnvironmentLogicalCPUs_MaxRange	
I069	CPU clock speed greater than 1000	test_GLUE2ExecutionEnvironmentCPUClockSpeed_MaxRange	Site misconfiguration: CPU lock Speed defined using the YAIM variable CE_CPU_SPEED. Check the YAIM guide
I070	CPU clock speed less than	test_GLUE2ExecutionEnvironmentCPUClockSpeed_MinRange	

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	100		for more details on how to define this variable. Make sure this variable actually reflects the right CPU speed
I071	CPU time scaling factor greater than 1	test_GLUE2ExecutionEnvironmentCPUTimeScalingFactor_MaxRange	CE bug: this value is currently hardcoded in the CREAM information provided
I072	CPU time scaling factor less than 0.1	test_GLUE2ExecutionEnvironmentCPUTimeScalingFactor_MinRange	1
I073	Wall time scaling factor greater than 1	test_GLUE2ExecutionEnvironmentWallTimeScalingFactor_MaxRange	CE bug: this is a mandatory attribute it is currently not published by the CREAM CE
I074	Wall time scaling factor less than 0.1	test_GLUE2ExecutionEnvironmentWallTimeScalingFactor_MinRange	
I075	Main memory size greater than 1 million MB	test_GLUE2ExecutionEnvironmentMainMemorySize_MaxRange	Site misconfiguration: The RAM size is defined using the YAIM variable
I076	Main memory size less than 100 MB	test_GLUE2ExecutionEnvironmentMainMemorySize_MinRange	CE_MINPHYSMEM. Check the YAIM guide for more details on how to define this variable. Make sure this variable actually reflects the right memory size
I077	Virtual memory size greater than 1 million MB	test_GLUE2ExecutionEnvironmentVirtualMemorySize_MaxRange	Site misconfiguration: The virtual memory is defined using the YAIM variable
I078	Virtual memory size less than 100 MB	test_GLUE2ExecutionEnvironmentVirtualMemorySize_MinRange	CE_MINVIRTMEM. Check the YAIM guide for more details on how to define this variable. Make sure this variable actually reflects the right virtual memory size
I079	Removal date in the past	test_GLUE2ApplicationEnvironmentRemovalDate_OK	CE bug: this is an optional attribute that is currently not published by the CREAM CE
I080	Number of maximum slots is zero	test_GLUE2ApplicationEnvironmentMaxSlots_OK	
I081	Number of maximum jobs is zero	test_GLUE2ApplicationEnvironmentMaxJobs_OK	
I082	Number of maximum user seats is zero	test_GLUE2ApplicationEnvironmentMaxUserSeats_OK	
I083	Incoherent attribute range	test_GLUE2ApplicationEnvironmentFreeSlots_OK	

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I084	Incoherent attribute range	test_GLUE2ApplicationEnvironmentFreeJobs_OK	
I085	Incoherent attribute range	test_GLUE2ApplicationEnvironmentFreeUserSeats_OK	
I086	Total capacity size less than 1000 GB	test_GLUE2StorageServiceCapacityTotalSize_MinRange	<p>Site configuration This value is automatically generated by the storage service information provided. The glue-validator performs these sanity checks but maybe values are correct so you can ignore this message</p> <p>SE bug: attribute either not published by most storage services or wrongly hardcoded -1</p>
I087	Total capacity size greater than 1 billion GB	test_GLUE2StorageServiceCapacityTotalSize_MaxRange	
I088	Access latency is 'offline'	test_GLUE2StorageShareAccessLatency_OK	
I089	Default life time less than 100000 seconds	test_GLUE2StorageShareDefaultLifeTime_OK	
I090	Maximum life time less than 100000 seconds	test_GLUE2StorageShareMaximumLifeTime_OK	
I091	Total share capacity size less than 1000 GB	test_GLUE2StorageShareCapacityTotalSize_MinRange	
I092	Total share capacity size greater than 1 billion GB	test_GLUE2StorageShareCapacityTotalSize_MaxRange	
I093	Bandwidth less than 100	test_GLUE2ToComputingServiceBandwidth_MinRange	
I094	Bandwidth greater than 100000	test_GLUE2ToComputingServiceBandwidth_MaxRange	
I095	Recommended attribute not present	test_mandatory_attributes	
I096	Default value published	test_GLUE2ComputingShareMaxMainMemory_Default	<p>Site misconfiguration It checks whether it publishes a default value of 444444. This value is OK if you do not want to define a limit for memory and therefore you can ignore this message. Otherwise, if you want to define a limit, make sure a proper value is defined in the batch system configuration</p>
I097	Default value published	test_GLUE2ComputingShareMaxVirtualMemory_Default	

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