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New benchmark in the information system

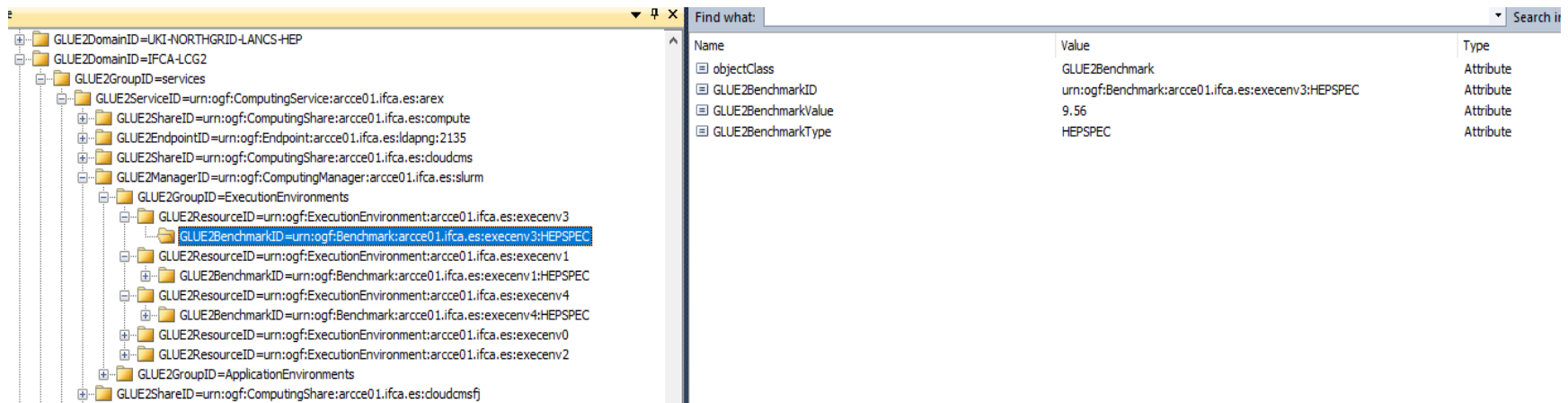
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- The **Benchmark** class provides both the type and the value of the benchmark
 - Benchmark information either about an **Execution Environment** providing computing capacity or about a CloudComputingInstanceType providing cloud computing capacity
- Attributes:
 - Type (Benchmark_t): The type of benchmark
 - Value (Real32): The benchmark value
- More than one **Benchmark** per Execution Environment is allowed



The screenshot shows the GLUE2 Schema Explorer interface. On the left, a tree view displays the hierarchy of classes. The 'GLUE2BenchmarkID=urn:ogf:Benchmark:arcce01.ifca.es:execenv3:HEPSPEC' entry is highlighted. On the right, a search results table is displayed.

Name	Value	Type
objectClass	GLUE2Benchmark	Attribute
GLUE2BenchmarkID	urn:ogf:Benchmark:arcce01.ifca.es:execenv3:HEPSPEC	Attribute
GLUE2BenchmarkValue	9.56	Attribute
GLUE2BenchmarkType	HEPSPEC	Attribute

- Open enumeration

Value	Description
bogomips	BogoMips
cfp2006	SPEC CFP 2006 floating point benchmark
cint2006	SPEC CINT 2006 integer benchmark
linpack	LINPACK benchmark
specfp2000	SPECfp2000 floating point benchmark
specint2000	SPECint2000 integer benchmark

- Table dated 2009 and never updated
 - New values can be added when needed
 - HEPSPSPEC was never added
 - Any other value compatible with the string type and with the recommended syntax is allowed
- GitHub repository for updating the enumerations
 - <https://github.com/OGF-GLUE/Enumerations>
- We could officially request to add new benchmark types
 - By sending an email to the GLUE WG

- [lrms] block
 - [benchmark](#) (i.e. benchmark=HEPSPEC:12.26)
 - Not clear if you can define multiple values
- [infosys/glue1] block
 - [processor_other_description](#) (i.e. processor_other_description=Cores=3,Benchmark=9.8-HEP-SPEC06)
 - Probably no more relevant for the new benchmark
- [queue:name] block
 - [benchmark](#): multivalued setting, i.e.
 - benchmark=HEPSPEC 12.26
 - benchmark=Si2k 3065
 - **BUT**: in case of multiple benchmarks are specified:
 - Accounting subsystem will use only the **FIRST** defined benchmark.
 - Infosys will publish all defined benchmark values.
- Perhaps a change in ARC-CE is needed to accept also the new benchmark type

- To verify the support of multiple benchmarks

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Thank you
for your attention.

Questions?



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