# Mulgara - Bug #136

## IntervalConstraintDescriptor converts all bounds to xsd:double

08/04/2008 08:04 PM - Alex Hall -

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|---|---|---|---|
| **Status:** | New | **Start date:** | |
| **Priority:** | Urgent | **Due date:** | |
| **Assignee:** | Paula Gearon | **% Done:** | 0% |
| **Category:** | Mulgara | **Estimated time:** | 0.00 hour |
| **Target version:** | | | |
| **Resolution:** | | | |

**Description**

The Bounds object used by IntervalConstraintDescriptor to store the upper and lower bounds of a constraint stores the bounds as doubles. The IntervalConstraintDescriptor.resolve(...) method always uses SPDouble objects constructed from these bounds when slicing the stringpool. This makes it impossible to compare on datatypes derived from xsd:decimal (i.e. xsd:int, xsd:long, etc).

For instance, the following sequence of TQL commands produces no results:

```
create <rmi://localhost/server1#test>;
insert <test:foo> <rdf:value> '1'^^<http://www.w3.org/2001/XMLSchema#int>
   into <rmi://localhost/server1#test>;
select $x from <rmi://localhost/server1#test> where
   $x <mulgara:gt> '0'^^<http://www.w3.org/2001/XMLSchema#int> in <sys:xsd>;
```

### History

**#1 - 12/23/2008 12:04 PM - ronald -**

I believe XSDResolver.resolve also needs to be fixed in a similar way in order for this query to work, as it always does a range search on the string-pool using doubles.