

Metacat - Bug #2503

Metacat Servlet action=spatial_query returns incorrect results

07/31/2006 12:55 PM - Matthew Perry

Status:	Resolved	Start date:	07/31/2006
Priority:	Normal	Due date:	
Assignee:	Matthew Perry	% Done:	0%
Category:	metacat	Estimated time:	0.00 hour
Target version:	1.6	Spent time:	0.00 hour
Bugzilla-Id:	2503		
Description			
It appears that the metacat spatial query (metacat?action=spatial_query) does not return correct results. Based on a few test cases, it appears that only spatial queries which intersect the north-west corner of the geographic coverage return a correct result. This indicates a rather serious error in the spatial intersection logic.			

History

#1 - 07/31/2006 12:56 PM - Matthew Perry

Test cases can be found at http://pmark.msi.ucsb.edu/spatial_query_bug.pdf

#2 - 07/31/2006 02:53 PM - Matthew Perry

Fixed:

1) handleSpatialQuery called createSpatialquery w/ parameters in the wrong order

2) createSpatialQuery's logic was wrong; changed to match the logic specified in AdvancedSearch.java:

```
/*
 * Else, if the user does not select the boundaryContained checkbox, use the
 * following logical expression. N, S, E, and W are the boundaries of the
 * bounding box, while N', S', E', and W' are the boundaries specified in a
 * given EML document:
 *
 *      (N' > S) && (S' < N) && (E' > W) && (W' < E)
 */
```

#3 - 03/27/2013 02:20 PM - Redmine Admin

Original Bugzilla ID was 2503