Inca Data Display:
Writing Web Page Data Consumers
(Hands-on)

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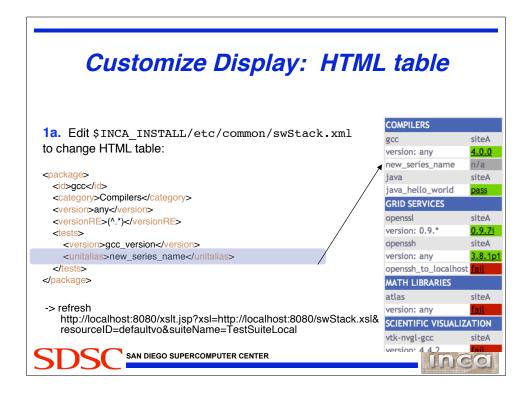**Inca 2.0 Workshop**
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Customize Display

Change:

1. HTML table layout (swStack.xml)

2. Style (swStack.xsl and inca.css)

3. Jetty port

Customize Display: HTML table

1a. Edit `$INCA_INSTALL/etc/common/swStack.xml`
to change HTML table:

```
<package>
  <id>gcc</id>
  <category>Compilers</category>
  <version>any</version>
  <versionRE>(^.*)</versionRE>
  <tests>
      <version>gcc_version</version>
      <unitalias>new_series_name</unitalias>
  </tests>
</package>
```

 -> refresh
    http://localhost:8080/xslt.jsp?xsl=http://localhost:8080/swStack.xsl&
    resourceID=defaultvo&suiteName=TestSuiteLocal

COMPILERS	
gcc	siteA
version: any	4.0.0
new_series_name	n/a
java	siteA
java_hello_world	pass
GRID SERVICES	
openssl	siteA
version: 0.9.*	0.9.7i
openssh	siteA
version: any	3.8.1p1
openssh_to_localhost	fail
MATH LIBRARIES	
atlas	siteA
version: any	fail
SCIENTIFIC VISUALIZATION	
vtk-nvgl-gcc	siteA
version: 4.4.2	fail

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Customize Display: HTML table

1b. Use a file besides `swStack.xml` to organize HTML table (xslt.jsp looks for
`swStack.xml` by default, but any xml file in `$INCA_INSTALL/etc/common` can
be used with the "xmlFile" parameter).

```
% cd $INCA_INSTALL/etc/common
% cp swStack.xml new.xml
% vi new.xml
```

-> remove the "atlas" package from `new.xml`

-> view jsp using new.xml as input ("atlas" package should be removed):

   http://localhost:8080/xslt.jsp?xsl=http://localhost:8080/swStack.xsl&resourceID=de
   faultvo&suiteName=TestSuiteLocal&xmlFile=new.xml

1c. EXTRA CREDIT:
   make a new XML file to display all of the new reporters you've written

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Customize Display: Style

2. Customize style by editing the xsl and css and rebuilding the Jetty war file:

```
% cd $INCA_INSTALL
% mkdir war; cd war
% jar xvf ../etc/inca-consumers.war
% cp inca.css inca.css.orig; cp swStack.xsl swStack.xsl.orig

% vi inca.css
```
  -> change line 101 to "background-color:#D07651;"

```
% vi swStack.xsl and add a "cron" table row
```

  -> insert the text at **http://inca.sdsc.edu/workshop/xsl.html** after line 113 (after </tr>)

  -> *EXTRA CREDIT:* remove "Reporter command log" rows and swap "ran at" and "age" rows

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Customize Display: Style

2. (cont)

```
% rm ../etc/inca-consumers.war ; jar cfv ../etc/inca-consumers.war *

% cd ..; ./bin/inca stop consumer

% ls /tmp | grep Jetty
```
 -> make sure there isn't a dir like Jetty__8080__

```
% ./bin/inca start consumer
```
 -> refresh
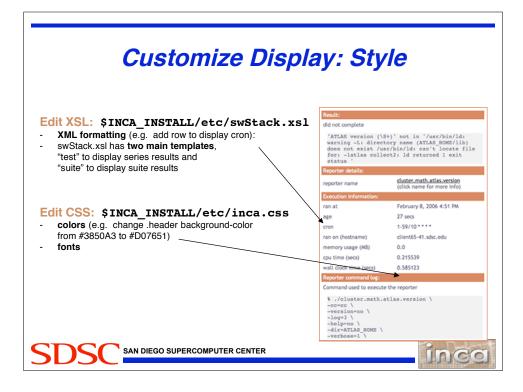   http://localhost:8080/xslt.jsp?xsl=http://localhost:8080/swStack.xsl&resourceID=defaultvo&
    suiteName=TestSuiteLocal

You should see the changes on the next slide…

Customize Display: Style

Edit XSL: `$INCA_INSTALL/etc/swStack.xsl`
- **XML formatting** (e.g. add row to display cron):
- swStack.xsl has **two main templates**, "test" to display series results and "suite" to display suite results

Edit CSS: `$INCA_INSTALL/etc/inca.css`
- **colors** (e.g. change .header background-color from #3850A3 to #D07651)
- **fonts**

Result:	
did not complete	

```
'ATLAS version (\S+)' not in '/usr/bin/ld:
warning -L: directory name (ATLAS_HOME/lib)
does not exist /usr/bin/ld: can't locate file
for: -latlas collect2: ld returned 1 exit
status '
```

Reporter details:	
reporter name	cluster.math.atlas.version (click name for more info)

Execution information:	
ran at	February 8, 2006 4:51 PM
age	27 secs
cron	1-59/10 * * * *
ran on (hostname)	client65-41.sdsc.edu
memory usage (MB)	0.0
cpu time (secs)	0.215539
wall clock time (secs)	0.585123

Reporter command log:	
Command used to execute the reporter	

```
% ./cluster.math.atlas.version \
-cc=cc \
-version=no \
-log=3 \
-help=no \
-dir=ATLAS_HOME \
-verbose=1 \
```

Customize Display: Jetty

3. Configure Jetty to start on port besides 8080 default:

```
% cd $INCA_INSTALL; vi etc/common/inca.properties
 -> change line 69 to "inca.consumer.port=8082"

% ./bin/inca stop consumer

% ./bin/inca start consumer
```

Jetty should now be started on 8082. Load the new webpage:
http://localhost:8082/xslt.jsp?xsl=http://localhost:8082/swStack.xsl&resourceID=defaultvo&suiteName=TestSuiteLocal