Science Component Test Cases

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1 Electronics sub component

1. Following packages subject to installation test:

   ```
   gpsim
   ```

2 Gis sub component

1. After installation gpsd and libgps packages:

   (If you have a gps you can test this package.)

   Plug your gps then start gpsd service from service manager. In order to be sure run the below command.

   ```
   service gpsd status
   ```

3 Astronomy sub component

1. After installation stellarium package:

   Open the application from Kmenu and observe that it can open without any problem.

4 Chemistry sub component

1. After installation openbabel package:

   Run the below commands. Observe that the test.smi file has "c1cccc(c1C(=O)O)OC(=O)C·C9H8O4" information.

   ```
   # babel -H sdf
   # wget http://cekirdek.pardus.org.tr/~semen/dist/test/science/aspirin.sdf
   # babel -isdf 'aspirin.sdf' -osmi 'test.smi'
   # vi test.smi
   ```

5 Mathematics sub component

1. After installation rkward package:

   Open the application from Kmenu and click the Plots → Barplot. Select an item from the list and then click submit and apply it. Observe that the related graphic is opened without any problem.

2. After installation wxMaxima package:

   Open the application from Kmenu. Do some mathematical application and observe the applications can be done without any problem.

3. After installation maxima package:

   Observe that the following commands run without any problem.

   ```
   # maxima
   144*17 - 9;
   144^25;
   ```

4. Following packages subject to installation test:

   ```
   gfan
   ```

6 Robotics sub component

1. After installation opencv package: (If you have a webcam you can test this package.)

   Plug the webcam then run the below commands. observe that the webcam window is opened.

   ```
   # wget http://svn.pardus.org.tr/projeler/facelock/pardus.py
   # wget http://svn.pardus.org.tr/projeler/facelock/pardus.png
   # python pardus.py
   ```