I used the following bash code to convert & reconvert from URL -> SEED -> XML -> SEED:

```bash
theConverter='stationxml-converter-0.95a.jar'
rdSeed='../rdseedv5.3.1/rdseed.mac.x86_64'
basexml='http://service.iris.edu/fdsnwsbeta/station/1/query?level=resp&starttime=2013-01-01'

echo "------- get IU:ANTO:00:VM1 into SEED"
java -jar ${theConverter} -s -v -o bug96s.dataless "${basexml}&net=IU&sta=ANTO&cha=VM1&loc=00"
echo "------- convert back to XML"
java -jar ${theConverter} -x -v -p -se IRIS -o bug96x.xml bug96s.dataless
echo "------- reconvert into SEED"
java -jar ${theConverter} -s -o bug96ss.dataless bug96x.xml
echo "------- convert back to XML once more"
java -jar ${theConverter} -x -p -se IRIS -o bug96xx.xml bug96ss.dataless

The error shows up when the SEED is converted back into XML.

```java
Error with Double field value for fieldNum=9 and fieldIndex=0: forcing value of zero
blktype=0, value=0.00000E+00+
Error with Double field value for fieldNum=10 and fieldIndex=0: forcing value of zero
blktype=0, value=5.00000E-02-
Error with Double field value for fieldNum=11 and fieldIndex=0: forcing value of zero
blktype=0, value=1.00000E+01+
Error with Double field value for fieldNum=12 and fieldIndex=0: forcing value of zero
blktype=0, value=1.00000E+01+
Error with Integer field value for fieldNum=14 and fieldIndex=0: forcing value of zero
blktype=0, value=02+
java.lang.NumberFormatException: For input string: "0.0"
at java.lang.NumberFormatException.forInputString(NumberFormatException.java:48)
at java.lang.Integer.parseInt(Integer.java:458)
at java.lang.Integer.<init>(Integer.java:660)
at edu.iris.Fissures.seed.director.SeedImportDirector.build(SeedImportDirector.java:154)
at edu.iris.Fissures.seed.director.ImportDirector.read(ImportDirector.java:129)
at edu.iris.Fissures.seed.director.ImportDirector.construct(ImportDirector.java:77)
at edu.iris.Fissures.seed.director.ImportDirector.construct(ImportDirector.java:93)
at edu.iris.converter.StationPrinter.process(StationPrinter.java:150)
at edu.iris.converter.Main.<init>(Main.java:188)
at edu.iris.converter.Main.main(Main.java:207)
```

Converting the dataless using rdseed, I see the differences here:

```bash
08/30/2022
1/2
diff bug96s.txt bug96ss.txt
3c3
< Taking input from bug96s.dataless (XML -> SEED)
---
> Taking input from bug96ss.dataless (XML -> SEED -> XML -> SEED)
20c20
< B010F07 Creation Date of this volume: 2013,015,22:49:21.0000
---
> B010F07 Creation Date of this volume: 2013,015,22:49:22.0000
85,86c85,86
< B062F07 Polynomial Approximation Type: M [MacLaurin]
< B062F08 Valid Frequency Units: B [Hz]
---
> B062F07 Polynomial Approximation Type: Error! Invalid polynomial approximation type: B
> B062F08 Valid Frequency Units: Error! Invalid Frequency Unit: +
89c89
< B062F11 Lower Bound of Approximation: -10
---
> B062F11 Lower Bound of Approximation: 10

I'm guessing that the information was lost or moved upon the conversion from SEED -> XML. I have attached the original XML->Seed file

---

History

#1 - 01/15/2013 03:44 PM - Celso Reyes
- File converter_bug124.dataless added

By comparing the files, I see the difference is:

In the original seed, Blockette 62 Field 7 Polynomial Approximation Type: M [MacLaurin]
The same is true when I convert from the service to SEED. (Blockette 62 matches perfectly).

In the original XML, there is <Response><Response stage="1">
<Polynomial>...<ApproximationType> MACLAURIN </ApproximationType>

BUT, in the XML created from SEED, it is changed to <ApproximationType> M </ApproximationType>

Note, I attached the original seed, downloaded from IRIS

#2 - 01/15/2013 04:09 PM - Celso Reyes
- Status changed from New to Closed

changing the SEED->XML conversion seemed to do the trick

Files

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<thead>
<tr>
<th>File</th>
<th>Size</th>
<th>Date</th>
<th>User</th>
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<tr>
<td>bug96s.dataless</td>
<td>32 KB</td>
<td>01/15/2013</td>
<td>Celso Reyes</td>
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<tr>
<td>converter_bug124.dataless</td>
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<td>Celso Reyes</td>
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