NAME

rrdxport − Export data in XML format based on data from one or several RRD

SYNOPSIS

rrdtool xport [−**s**|−−**start** *seconds*] [−**e**|−−**end** *seconds*] [−**m**|−−**maxrows** *rows*] [−−**step** *value*] [−−**json**]
[−**t**|−−**showtime**]   [−−**enumds**]   [−−**daemon**|−**d** *address*]   [**DEF:***vname*=*rrd*:*ds-name*:*CF*]
[**CDEF:***vname*=*rpn-expression*] [**XPORT:***vname*[:*legend*]]]

DESCRIPTION

The **xport** function's main purpose is to write an XML formatted representation of the data stored in one or several **RRD**s. It can also extract numerical reports.

If no *XPORT* statements are found, there will be no output.

−s|**−−start** *seconds* (default end−1day)
> The time when the exported range should begin. Time in seconds since epoch (1970−01−01) is required. Negative numbers are relative to the current time. By default one day worth of data will be printed. See also AT-STYLE TIME SPECIFICATION section in the *rrdfetch* documentation for a detailed explanation on how to specify time.

−e|**−−end** *seconds* (default now)
> The time when the exported range should end. Time in seconds since epoch. See also AT-STYLE TIME SPECIFICATION section in the *rrdfetch* documentation for a detailed explanation of ways to specify time.

−m|**−−maxrows** *rows* (default 400 rows)
> This works like the **−w**|**−−width** parameter of *rrdgraph*. In fact it is exactly the same, but the parameter was renamed to describe its purpose in this module. See *rrdgraph* documentation for details.

−−step *value* (default automatic)
> See rrdgraph documentation.

−−daemon|**−d** *address*
> Address of the rrdcached daemon. If specified, a `flush` command is sent to the server before reading the RRD files. This allows **rrdtool** to return fresh data even if the daemon is configured to cache values for a long time. For a list of accepted formats, see the **−l** option in the rrdcached manual.

> ```
> rrdtool xport --daemon unix:/var/run/rrdcached.sock ...
> ```

−t|**−−showtime**
> include the time into each data row.

−−json
> produce json formatted output (instead of xml)

−−enumds
> The generated xml should contain the data values in enumerated tags.

> ```
> <v0>val</v0><v1>val</v1>
> ```

DEF:*vname*=*rrd*:*ds-name*:*CF*
> See *rrdgraph* documentation.

CDEF:*vname*=*rpn-expression*
> See *rrdgraph* documentation.

XPORT:*vname*[:*legend*]
> At least one *XPORT* statement should be present. The values referenced by *vname* are printed. Optionally add a legend.

Output format

The output is enclosed in an **xport** element and contains two blocks. The first block is enclosed by a **meta** element and contains some meta data. The second block is enclosed by a **data** element and contains the

data rows.

Let's assume that the *xport* command looks like this:

```
rrdtool xport \
        --start now-1h --end now \
        DEF:xx=host-inout.lo.rrd:output:AVERAGE \
        DEF:yy=host-inout.lo.rrd:input:AVERAGE \
        CDEF:aa=xx,yy,+,8,* \
        XPORT:xx:"out bytes" \
        XPORT:aa:"in and out bits"
```

The resulting meta data section is (the values will depend on the RRD characteristics):

```
<meta>
  <start>1020611700</start>
  <step>300</step>
  <end>1020615600</end>
  <rows>14</rows>
  <columns>2</columns>
  <legend>
    <entry>out bytes</entry>
    <entry>in and out bits</entry>
  </legend>
</meta>
```

The resulting data section is:

```
<data>
  <row><t>1020611700</t><v>3.4000000000e+00</v><v>5.4400000000e+01</v></row>
  <row><t>1020612000</t><v>3.4000000000e+00</v><v>5.4400000000e+01</v></row>
  <row><t>1020612300</t><v>3.4000000000e+00</v><v>5.4400000000e+01</v></row>
  <row><t>1020612600</t><v>3.4113333333e+00</v><v>5.4581333333e+01</v></row>
  <row><t>1020612900</t><v>3.4000000000e+00</v><v>5.4400000000e+01</v></row>
  <row><t>1020613200</t><v>3.4000000000e+00</v><v>5.4400000000e+01</v></row>
  <row><t>1020613500</t><v>3.4000000000e+00</v><v>5.4400000000e+01</v></row>
  <row><t>1020613800</t><v>3.4000000000e+00</v><v>5.4400000000e+01</v></row>
  <row><t>1020614100</t><v>3.4000000000e+00</v><v>5.4400000000e+01</v></row>
  <row><t>1020614400</t><v>3.4000000000e+00</v><v>5.4400000000e+01</v></row>
  <row><t>1020614700</t><v>3.7333333333e+00</v><v>5.9733333333e+01</v></row>
  <row><t>1020615000</t><v>3.4000000000e+00</v><v>5.4400000000e+01</v></row>
  <row><t>1020615300</t><v>3.4000000000e+00</v><v>5.4400000000e+01</v></row>
  <row><t>1020615600</t><v>NaN</v><v>NaN</v></row>
</data>
```

EXAMPLE 1

```
rrdtool xport \
        DEF:out=if1-inouts.rrd:outoctets:AVERAGE \
        XPORT:out:"out bytes"
```

EXAMPLE 2

```
rrdtool xport \
        DEF:out1=if1-inouts.rrd:outoctets:AVERAGE \
        DEF:out2=if2-inouts.rrd:outoctets:AVERAGE \
        CDEF:sum=out1,out2,+ \
        XPORT:out1:"if1 out bytes" \
        XPORT:out2:"if2 out bytes" \
        XPORT:sum:"output sum"
```

ENVIRONMENT VARIABLES
The following environment variables may be used to change the behavior of `rrdtool xport`:

RRDCACHED_ADDRESS
If this environment variable is set it will have the same effect as specifying the `--daemon` option on the command line. If both are present, the command line argument takes precedence.

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