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] [--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 $-\mathbf{w}|$ — \mathbf{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 ...
```

--json

produce json formated 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>in and out bits/entry>
          </legend>
        </meta>
      The resulting data section is:
        <data>
          <row><t>1020611700</t><v>3.4000000000e+00</v><v>5.44000000000e+01</v></row>
          <row><t>1020612000</t><v>3.4000000000e+00</v><v>5.44000000000e+01</v></row>
          <row><t>1020612300</t><v>3.4000000000e+00</v><v>5.44000000000e+01</v></row>
          <row><t>1020612600</t><v>3.41133333333e+00</v><v>5.45813333333e+01</v></row>
          <row><t>1020612900</t><v>3.4000000000e+00</v><v>5.44000000000e+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>5.44000000000e+01</v></row>
          <row><t>1020613800</t><v>3.4000000000e+00</v><v>5.44000000000e+01</v></row>
          <row><t>1020614100</t><v>3.4000000000e+00</v><v>5.44000000000e+01</v></row>
          <row><t>1020614400</t><v>3.4000000000e+00</v><v>5.44000000000e+01</v></row>
          <row><t>1020614700</t><v>3.73333333333e+00</v><v>5.97333333333e+01</v></row>
          <row><t>1020615000</t><v>3.4000000000e+00</v><v>5.44000000000e+01</v></row>
          <row><t>1020615300</t><v>3.4000000000e+00</v><v>5.44000000000e+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.

AUTHOR

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