NAME
   rahisto – print histogram of metrics from argus(8) data.

SYNOPSIS
   rahisto [−M histomode] −H bin[L]:range|size ... [raoptions] [− filter-expression]

DESCRIPTION
   Rahisto reads argus data from an argus-data source, sorts the records based on the criteria specified on the command line, and outputs a valid argus-stream.

OPTIONS
   Rahisto, like all ra based clients, supports a number of ra options including filtering of input argus records through a terminating filter expression. See ra(1) for a complete description of ra options. rahisto(1) specific options are:

   −M nozero
       Don’t print bins that have zero frequencies.

   −M outlayer
       Print accumulated stats for outlayer values, i.e. the values that are outside the histogram range.

   −H metric bin[L]:range | size

Supported metrics are:
   dur      record total duration.
   avgdur   record average duration.
   proto    transaction protocol.
   sport    source port number.
   dport    destination port number.
   stos     source TOS byte value.
   dtos     destination TOS byte value.
   sttl     src -> dst TTL value.
   dttl     dst -> src TTL value.
   [s|d]bytes [src | dst] transaction bytes.
   [s|d]appbytes [src | dst] application bytes.
   [s|d]pkts  [src | dst] packet count.
   [s|d]meansz [src | dst] mean packet size.
   [s|d]load  packets per second.
   [s|d]loss  pctts retransmitted or dropped.
   [s|d]ploss percent pkts retransmitted or dropped.
   [s|d]rate  bits per second.

INVOCATION
   A sample invocation of rahisto(1). This call reads argus(8) data from inputfile and generates a frequency distribution histogram for the transaction duration for HTTP traffic.

   % rahisto -H dur 10 -r ~/argus/data/argus*out.gz - port http
   N = 194  mean = 15.928685  stddev = 23.728876  max = 81.354462  min = 0.008055
   median = 0.079948  95% = 59.208977

   Class   Interval      Freq   Rel.Freq   Cum.Freq
   1     0.000000e+00    123  63.4021%   63.4021%
   2     8.200000e+00     7  3.6082%   67.0103%
   3     1.640000e+01    13   6.7010%   73.7113%
   4     2.460000e+01     9  4.6392%   78.3505%
   5     3.280000e+01    13   6.7010%   78.3505%
   6     4.100000e+01    35  18.0412%  99.4845%
   7     4.920000e+01     3  1.5155%   100.0000%

   A sample invocation where the call reads argus(8) data from inputfile and generates a frequency...
distribution histogram for the round-trip time of arp volleys in argus(8) data.

```bash
% rahisto -H dur 10:0−75u -R /Vol*/Data/Archive/split/*68/2012/0[23] - arp and dur gt 0
N = 360 mean = 0.000028 stddev = 0.000007 max = 0.000066 min = 0.000014
median = 0.000031 95% = 0.000028
```

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<th>Freq</th>
<th>Rel.Freq</th>
<th>Cum.Freq</th>
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<td>0</td>
<td>0.0000%</td>
<td>0.0000%</td>
</tr>
<tr>
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<td>2</td>
<td>0.5556%</td>
<td>0.5556%</td>
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<tr>
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<td>17.5000%</td>
<td>18.0556%</td>
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<tr>
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<tr>
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<tr>
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</tbody>
</table>

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SEE ALSO

ra(1), rarc(5), argus(8),

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BUGS