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=====

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loginrec.h
atomicio.h
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ecmh

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ecmh - Easy Cast du Multi Hub

Easy Cast du Multi Hub (ecmh) is a networking daemon that relays and aggregates multicast packets from/to network interfaces.

This allows IPv6 multicast routing on Linux and other OS's that do not implement IPv6 multicast routing. It also allows IPv4 to IPv6 and IPv6 to IPv4 translation of multicast traffic. Allowing multicast where it is not available at the moment. It also has a tunnel mode so that it can detect multicast packets being tunneled inside protocol 41 (IPv6 in IPv4) tunnels (RFC3056). This is for instance very handy for projects like SixXS (<http://www.sixxs.net>) where we can install this daemon on the POPs and let it easily do multicast IPv6 allowing the m6bone (<http://www.m6bone.net>) to grow and provide IPv6 multicast and because of the translation also IPv4 multicast everywhere we would want it to be.

For a larger explanation see the website as mentioned below.

Compilation

~~~~~

- \* Linux
  - Either get the debian package or use 'make help' in this directory (not src)
- \* FreeBSD 5 (GNU make)
  - use 'make help' to see the options
- \* FreeBSD 5 (BSD make)
  - cd src; uncomment the 3 lines in the Makefile to get it working
- \* FreeBSD 4
  - cd src; uncomment the 3 lines in the Makefile to get it working
  - Requires the libgnugetopt port. Make it from the 'src' dir

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To contact the author send a email to:

Jeroen Massar <[jeroen@unfix.org](mailto:jeroen@unfix.org)>

Authors Website: <http://unfix.org/~jeroen/>  
ecmh Website: <http://unfix.org/projects/ecmh/>

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## iozone

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```
iozone.c
/*****
/*      Original Author:                               */
/*      William Norcott (wnorcott@us.oracle.com)        */
/*      4 Dunlap Drive                                  */
/*      Nashua, NH 03060                                */
/*                                                     */
/*****
/*      Enhancements by:                               */
/*      Don Capps (capps@iozone.org)                    */
/*      7417 Crenshaw                                   */
/*      Plano, TX 75025                                */
/*                                                     */
/*****
/*      Copyright 1991, 1992, 1994, 1998, 2000, 2001  William D. Norcott    */
/*****
/*
/* Iozone is based on the original work done by William Norrcot. It has      */
/* been enhanced so that it provides a more complete filesystem              */
/* characterization.                                                         */
/* Its purpose is to provide automated filesystem characterization.          */
/* Enhancements have been made by:                                          */
/* Don Capps                                                                */
/* capps@iozone.org                                                         */
/* Iozone can perform single stream and multi stream I/O                   */
/* also it now performs read, write, re-read, re-write,                    */
/* read backwards, read/write random, re-read record,                      */
/* pread, re-pread, re-pwrite, preadv, re-preadv, pwritev,                 */
/* stride read, and re-pwritev,mmap, POSIX async I/O, NFS                   */
/* cluster testing and much more.                                           */
/* The frontend now uses getopt() and the user can control many more       */
/* of the actions.                                                           */
/*
/*
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/*****/
```

fileop.c

\* Author: Don Capps

\* 3/13/2006

\*

\* Author: Don Capps (capps@iozone.org)

\* 7417 Crenshaw

\* Plano, TX 75025

\*

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gengnuplot.sh

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## iputils-ping6

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 */
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This code is derived from section 17.1 of Applied Cryptography, second edition, which describes a stream cipher allegedly compatible with RSA Labs "RC4" cipher (the actual description of which is a trade secret). The same algorithm is used as a stream cipher called "arcfour" in Tatu Ylonen's ssh package.

Here the stream cipher has been modified always to include the time when initializing the state. That makes it impossible to regenerate the same random sequence twice, so this can't be used for encryption, but will generate good random numbers.

RC4 is a registered trademark of RSA Laboratories.

--

This code implements the MD5 message-digest algorithm. The algorithm is due to Ron Rivest. This code was written by Colin Plumb in 1993, no copyright is claimed. This code is in the public domain; do with it what you wish.

Equivalent code is available from RSA Data Security, Inc. This code has been tested against that, and is equivalent, except that you don't need to include two pages of legalese with every copy.

To compute the message digest of a chunk of bytes, declare an MD5Context structure, pass it to MD5Init, call MD5Update as needed on buffers full of bytes, and then call MD5Final, which will fill a supplied 16-byte array with the digest.

--

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```
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 * hash.c: chained hash tables
 *
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 *
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 *
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trio files
trio.c trio.h
/*****
 *
 * $Id$
 *
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 *****/

triode.h trionan.c trionan.c
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triop.h
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*
*****

triostr.c triostr.h
/*****
*
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5. [6]Michael Barone <michael\_barone@lmco.com> GPSVME fixes
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8. [9]Marc Brett <Marc.Brett@westgeo.com> Magnavox GPS clock driver
9. [10]Piete Brooks <Piete.Brooks@cl.cam.ac.uk> MSF clock driver, Trimble PARSE support
10. [11]Nelson B Bolyard <nelson@bolyard.me> update and complete broadcast and crypto features in sntp
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12. [13]Reg Clemens <reg@dwf.com> Oncore driver (Current maintainer)
13. [14]Steve Clift <clift@ml.csiro.au> OMEGA clock driver

14. [15]Casey Crellin <casey@csc.co.za> vxWorks (Tornado) port and help with target configuration
15. [16]Sven Dietrich <sven\_dietrich@trimble.com> Palisade reference clock driver, NT adj. residuals, integrated Greg's Winnt port.
16. [17]John A. Dundas III <dundas@salt.jpl.nasa.gov> Apple A/UX port
17. [18]Torsten Duwe <duwe@immd4.informatik.uni-erlangen.de> Linux port
18. [19]Dennis Ferguson <dennis@mrbill.canet.ca> foundation code for NTP Version 2 as specified in RFC-1119
19. [20]John Hay <jhay@icomtek.csir.co.za> IPv6 support and testing
20. [21]Dave Hart <davehart@davehart.com> General maintenance, Windows port interpolation rewrite
21. [22]Claas Hilbrecht <neoclock4x@linum.com> NeoClock4X clock driver
22. [23]Glenn Hollinger <glenn@herald.usask.ca> GOES clock driver
23. [24]Mike Iglesias <iglesias@uci.edu> DEC Alpha port
24. [25]Jim Jagielski <jim@jagubox.gsfc.nasa.gov> A/UX port
25. [26]Jeff Johnson <jbj@chatham.usdesign.com> massive prototyping overhaul
26. [27]Hans Lambermont <Hans.Lambermont@nl.origin-it.com> or [28]<H.Lambermont@chello.nl> ntp sweep
27. [29]Poul-Henning Kamp <phk@FreeBSD.ORG> Oncore driver (Original author)
28. [30]Frank Kardel [31]<kardel (at) ntp (dot) org> PARSE <GENERIC> driver (>14 reference clocks), STREAMS modules for PARSE, support scripts, syslog cleanup, dynamic interface handling
29. [32]William L. Jones <jones@hermes.chpc.utexas.edu> RS/6000 AIX modifications, HP/UX modifications
30. [33]Dave Katz <dkatz@cisco.com> RS/6000 AIX port
31. [34]Craig Leres <leres@ee.lbl.gov> 4.4BSD port, ppsclock, Magnavox GPS clock driver
32. [35]George Lindholm <lindholm@ucs.ubc.ca> SunOS 5.1 port
33. [36]Louis A. Mamakos <louie@ni.umd.edu> MD5-based authentication
34. [37]Lars H. Mathiesen <thorinn@diku.dk> adaptation of foundation code for Version 3 as specified in RFC-1305
35. [38]Danny Mayer <mayer@ntp.org> Network I/O, Windows Port, Code Maintenance
36. [39]David L. Mills <mills@udel.edu> Version 4 foundation: clock discipline, authentication, precision kernel; clock drivers: Spectracom, Austron, Arbiter, Heath, ATOM, ACTS, KSI/Odetics; audio clock drivers: CHU, WWV/H, IRIG
37. [40]Wolfgang Moeller <moeller@gwdgv1.dnet.gwdg.de> VMS port
38. [41]Jeffrey Mogul <mogul@pa.dec.com> ntptrace utility
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40. [43]Kamal A Mostafa <kamal@whence.com> SCO OpenServer port
41. [44]Derek Mulcahy <derek@toybox.demon.co.uk> and [45]Damon Hart-Davis <d@hd.org> ARCRON MSF clock driver
42. [46]Rob Neal <neal@ntp.org> Bancomm refclock and config/parse code maintenance
43. [47]Rainer Pruy <Rainer.Pruy@informatik.uni-erlangen.de> monitoring/trap scripts, statistics file handling
44. [48]Dirce Richards <dirce@zk3.dec.com> Digital UNIX V4.0 port
45. [49]Wilfredo S 疣 chez <wsanchez@apple.com> added support for NetInfo
46. [50]Nick Sayer <mrapple@quack.kfu.com> SunOS streams modules
47. [51]Jack Sasportas <jack@innovativeinternet.com> Saved a Lot of space on the stuff in the html/pic/ subdirectory
48. [52]Ray Schnitzler <schnitz@unipress.com> Unixware1 port
49. [53]Michael Shields <shields@tembel.org> USNO clock driver
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51. [55]Harlan Stenn <harlan@pfcs.com> GNU automake/autoconfigure makeover, various other bits (see the ChangeLog)
52. [56]Kenneth Stone <ken@sdd.hp.com> HP-UX port
53. [57]Ajit Thyagarajan <ajit@ee.udel.edu> IP multicast/anycast support

- 54. [58]Tomoaki TSURUOKA <tsuruoka@nc.fukuoka-u.ac.jp> TRAK clock driver
  - 55. [59]Paul A Vixie <vixie@vix.com> TrueTime GPS driver, generic TrueTime clock driver
  - 56. [60]Ulrich Windl <Ulrich.Windl@rz.uni-regensburg.de> corrected and validated HTML documents according to the HTML DTD
-

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### THE BASIC LIBRARY FUNCTIONS

-----

Written by: Philip Hazel  
Email local part: ph10  
Email domain: cam.ac.uk

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