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[FreeBSD devel](#) : [linuxthreads](#)

[FreeBSD](#)

POSIX pthreads implementation using rfork to generate kernel threads

LinuxThreads is an POSIX pthreads implementation using "kernel threads". In this FreeBSD port, a kernel thread is started using rfork (whereas in the original Linux implementation a kernel thread is started using the Linux clone call). This implementation provides a so-called one-to-one mapping of threads to kernel schedulable entities. For more information see about the original LinuxThreads implementation see:

<http://pauillac.inria.fr/~xleroy/linuxthreads/>

Note that LinuxThreads has been integrated with the GNU C library (glibc) since version 2.0, so the above URL points to dated information.

The complete FreeBSD source code matching the installed userland must be installed in /usr/src before building linuxthreads.

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[Freebsd dns](#)

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[Freebsd print](#)

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[Freebsd science](#)

[Freebsd security](#)

[Freebsd shells](#)

[Freebsd sysutils](#)

[Freebsd textproc](#)

linuxthreads history

v. 1.49
date: 2007/07/03 08:38:00; author: pav; state: Exp; lines: +28 -12
- Fix build on CURRENT with GCC 4.2

Submitted by: tegge (maintainer)

v. 1.48
date: 2007/03/21 21:52:01; author: tegge; state: Exp; lines: +1 -1
Bump port v. after changes to the backported fix for pthread manager
pipe communication.

v. 1.47
date: 2007/01/30 10:25:24; author: pav; state: Exp; lines: +2 -5
- Remove support for a.out format and PORTOBJFORMAT variable from individual
ports

With hat: portmgr

v. 1.46
date: 2006/05/28 17:47:01; author: tegge; state: Exp; lines: +1 -1
Bump port v. due to pthread manager pipe communication fix.

v. 1.45
date: 2006/05/28 17:26:09; author: tegge; state: Exp; lines: +1 -1
Use pre-su-install target.

PR: 96147
Submitted by: Michael Neumann

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[Freebsd x11-servers](#)
[Freebsd x11-themes](#)
[Freebsd x11-tools](#)
[Freebsd x11-wm](#)

v. 1.44
date: 2006/01/24 01:05:01; author: tegge; state: Exp; lines: +1 -1
Backport 2002-04-24 fix from newer linuxthreads versions to avoid hangs
or busy wait loop due to race between timeout and pthread_cond_signal.

v. 1.43
date: 2005/09/10 20:47:38; author: pav; state: Exp; lines: +2 -2
- Fix conditionals for ancient make(1)

PR: ports/84482
Submitted by: Brent B. Powers
Approved by: maintainer timeout (tegge; 1 month)

v. 1.42
date: 2005/07/25 14:58:02; author: tegge; state: Exp; lines: +6 -1
Catch up with shared library version bump in FreeBSD >= 6.0.

v. 1.41
date: 2005/07/22 22:20:21; author: tegge; state: Exp; lines: +44 -13
Check for NO_PIC and NO_PROFILE on FreeBSD >= 6.0.

Add sys/_pthreadtypes.h to allow compilation on FreeBSD >= 6.0.

Initialize signal trampoline variables earlier to avoid race in wrapper
around sigaction.

Fix known API wrapper bugs.

Port compile time options:

Add option for using an alternate restart signal instead of SIGUSR2.

Add options for adjustment of maximum thread stack size and maximum
number of threads.

Make all options start with LINUXTHREADS_

Note that complete FreeBSD source matching userland must be installed
in /usr/src when compiling this port.

v. 1.40
date: 2005/07/20 23:56:02; author: kris; state: Exp; lines: +4 -0
BROKEN on FreeBSD >= 6.0: Does not compile

v. 1.39
date: 2004/11/22 17:57:45; author: tegge; state: Exp; lines: +1 -1
Align stack address for new threads.

v. 1.38
date: 2004/03/21 20:22:14; author: tegge; state: Exp; lines: +2 -1
Stop wrapping gethost* functions on 5.2-CURRENT.

v. 1.37
date: 2004/02/27 23:32:54; author: tegge; state: Exp; lines: +20 -2
Add option to ignore posix priority scheduling.
Add threadsafe versions of some libc functions on FreeBSD 4.x.
Register liblgcc_r_pic.a as installed for FreeBSD 5.x.

v. 1.36
date: 2003/07/14 12:15:03; author: tegge; state: Exp; lines: +1 -1
Restore gethostbyaddr_r wrapper and remove getpw{nam,uid}_r wrappers for
newer versions of FreeBSD 5.X.

Drop use of deprecated AINC variable.

Reenable use of ld(1) to restore the LINUXTHREADS_WRAP_API option.

Rename __thread to __xthread in prototypes to avoid conflict with
new gcc keyword.

Bump port revision.

v. 1.35
date: 2003/06/09 03:48:30; author: tegge; state: Exp; lines: +30 -2
Add new experimental option, LINUXTHREADS_WRAP_API, that adds wrapper
functions providing most of the native threads API while avoiding name
clashes by transparently prefixing all function names that directly
provide the linuxthreads API.

v. 1.34
date: 2003/03/27 01:29:24; author: tegge; state: Exp; lines: +1 -1

v. 1.33
date: 2003/03/07 06:00:45; author: ade; state: Exp; lines: +1 -0
Clear moonlight beckons.
Requiem mors pacem pkg-comment,
And be calm ports tree.

E Nomini Patri, E Fili, E Spiritu Sancti.

v. 1.32
date: 2003/02/25 00:27:37; author: tegge; state: Exp; lines: +11 -1
Make detection of unsafe calls to exit() optional and not default.

Reviewed by: mbr

v. 1.31
date: 2002/11/19 16:07:02; author: tegge; state: Exp; lines: +1 -1
Fix build failure on 5.0-CURRENT by including necessary headers.

v. 1.30
date: 2002/09/06 15:03:19; author: tegge; state: Exp; lines: +1 -1
Bump port v. to reflect memory leak fix.

v. 1.29
date: 2002/06/18 20:32:21; author: tegge; state: Exp; lines: +14 -1
Register PIC archives when INSTALL_PIC_ARCHIVE has been defined.
Defining INSTALL_LIBLTHREAD_PIC_ARCHIVE causes installation and
registration of PIC archive for liblthread, which can be used to
generate a shared liblthread library for a different gcc installation.
Bump port revision.

v. 1.28
date: 2002/06/08 20:58:53; author: tegge; state: Exp; lines: +19 -20
Reduce number of portlint errors/warnings.

v. 1.27
date: 2002/06/08 18:27:19; author: tegge; state: Exp; lines: +85 -8
Build linuxthreads version of libstdc++ and libsupc++ under 5.0-CURRENT.
Don't misuse DESTDIR when building linuxthreads version of libgcc.
Fix varargs warning under 5.0-CURRENT.
Don't try to register profiled libraries when NOPROFILE has been specified.
Don't try to register shared libraries when NOPIC has been specified.
Bump port revision.

PR: 38876

v. 1.26
date: 2002/04/22 16:50:01; author: tegge; state: Exp; lines: +1 -1
Fix hang caused by a thread calling exit():

- Block cancel signal while creating new thread to avoid losing the signal.
 - Terminate the process with _exit(1) if it's unsafe to continue calling atexit functions and destructors.
-

v. 1.25
date: 2002/03/10 01:24:23; author: tegge; state: Exp; lines: +11 -3
Document that FreeBSD source code is needed to build linuxthreads port.
Add sanity check for presence of needed FreeBSD source code.
Unbreak compilation on 5.0-CURRENT, DEFS.h is no longer available.
Bump port revision.

v. 1.24
date: 2001/09/13 16:01:44; author: tegge; state: Exp; lines: +2 -2
Handle internal race that caused pthread_cond_timedwait() to block
waiting for a signal that wasn't sent.

v. 1.23
date: 2001/09/09 01:12:47; author: tegge; state: Exp; lines: +21 -2
Add an optional experimental patch that reduce the number of context
switches on UP systems when the thread waiting on a condition has a
higher priority than the thread signalling the condition.

Bump port revision.

v. 1.22
date: 2001/07/01 17:36:24; author: tegge; state: Exp; lines: +2 -4
Backout library major number bump. It wasn't needed. Additionally,

ldconfig -r didn't list the library, making it impossible for other ports to depend on the linuxthreads port.

v. 1.21

date: 2001/06/14 01:34:18; author: tegge; state: Exp; lines: +6 -4
Update from version 2.1.3 to 2.2.3 of LinuxThreads.

v. 1.20

date: 2001/02/20 00:34:56; author: tegge; state: Exp; lines: +8 -7
Initialize attributes for new threads with default values when a NULL pthread_attr_t is provided as argument to pthread_create.

liblgcc_r_pic.a no longer exists.

Put the liblgcc_r.a version of __get_eh_info() and __register_frame_info() into the shared linuxthreads library to avoid using the incompatible libgcc.a version. Shared libraries that use exceptions still represent a problem if linked before the linuxthreads library.

Compile liblgcc_r.a before the main linuxthreads library to provide the object files that contains __get_eh_info() and __register_frame_info().

Add minimal wrappers for native thread library functions used by 5.0-CURRENT libc. The wrappers try to call corresponding functions in the linuxthreads library after performing argument conversion.

v. 1.19

date: 2001/02/18 21:59:43; author: tegge; state: Exp; lines: +2 -2
Take over linuxthreads port maintainership.

Approved by: jasone

v. 1.18

date: 2001/01/16 17:30:20; author: sobomax; state: Exp; lines: +2 -2
Massive style enforcement - use ^I instead of spaces for variables indentation.

v. 1.17

date: 2000/11/06 19:43:33; author: jasone; state: Exp; lines: +6 -4
Use the correct pthread.h when compiling liblgcc_r. Allow thread stacks larger than 16kB. Make sure to call global destructors during shutdown.

PR: ports/22429
Submitted by: tegge

v. 1.16

date: 2000/10/08 10:19:27; author: asami; state: Exp; lines: +3 -3
Change PKGDIR from pkg/ to . Also fix places where \${PKGDIR} is spelled out (many of which are \${PKGDIR}/MESSAGE -> \${PKGMESSAGE} type fixes that shouldn't have been necessary) and the string "/pkg/" appear.

v. 1.15

date: 2000/09/25 12:21:14; author: asami; state: Exp; lines: +2 -4
Eliminate WRKSRC=\${WRKDIR}/\${PKGNAME} lines, as these will break when PORTREVISION or PORTEPOCH are defined.

Most of these Makefiles were defining DISTNAME and WRKSRC (and sometimes EXTRACT_SUFX) -- change those to define DISTFILES only. Also, some of the WRKSRC lines were not even necessary, as they were defining it to the default value.

Instigated by: Peter Pentchev and kris

v. 1.14

date: 2000/05/24 04:14:41; author: jasone; state: Exp; lines: +3 -2
Update from version 2.1.2 to 2.1.3 of LinuxThreads.

v. 1.13

date: 2000/04/16 23:12:29; author: mharo; state: Exp; lines: +1 -2
portlint - mostly moving around variables.

v. 1.12

date: 2000/04/11 21:28:55; author: mharo; state: Exp; lines: +9 -9
PORTNAME/PORTVERSION update

v. 1.11

date: 2000/02/01 03:39:26; author: jasone; state: Exp; lines: +2 -2
Require a more recent OSVERSION, since linuxthreads uses dllockinit(), which only very recently started to work correctly with linuxthreads.

v. 1.10
date: 2000/01/29 11:13:43; author: jasone; state: Exp; lines: +11 -2
Mark linuxthreads as requiring at least FreeBSD 4.0 and only working on
i386.

v. 1.9
date: 2000/01/29 03:15:21; author: jasone; state: Exp; lines: +6 -6
Back out changes to lock functions passed to dllockinit().

Don't compile the lockfile.c that comes with LinuxThreads.

v. 1.8
date: 2000/01/25 22:37:07; author: jasone; state: Exp; lines: +5 -4
Don't use the pthreads rwlock implementation for dllockinit(), since it
causes infinite recursion while trying to initialize the internal library
state. Instead, use a simple spinlock-based rwlock implementation.

Make minor cancellation cleanups.

v. 1.7
date: 2000/01/04 18:21:16; author: jasone; state: Exp; lines: +5 -5
Commit the updated Makefile too. I'm baffled as to how 'fcvs com' has
neglected the Makefile twice.

Submitted by: dick

v. 1.6
date: 1999/12/28 15:18:32; author: jasone; state: Exp; lines: +17 -22
Somehow, I missed the Makefile when committing the updated linuxthreads
port.

PR: 15724

v. 1.5
date: 1999/12/04 18:44:59; author: julian; state: Exp; lines: +3 -2
New documentation from Richard and Russell.
Change Maintainer to Jason Evans

Submitted by: "Richard Seaman, Jr."

v. 1.4
date: 1999/12/02 02:14:13; author: julian; state: Exp; lines: +10 -1
Submitted by: "Russell L. Carter"
more tuning

v. 1.3
date: 1999/12/01 00:08:28; author: julian; state: Exp; lines: +2 -1
Mark as only x86
Submitted by: Andrew Gallatin

v. 1.2
date: 1999/11/30 15:59:40; author: billf; state: Exp; lines: +2 -2
Smarter WRKSRC definition.

v. 1.1
date: 1999/11/30 09:07:14; author: julian; state: Exp;
Reviewed by: Russell Carter
Submitted by: "Richard Seaman, Jr."

Native FreeBSD port of the linuxthreads library
Includes added files and stuff you need to add to the rest of your system.
This is for -current I'm sure Richard's older version might be
a good place to start for a 3.x version.

v. 1.49
date: 2007/07/03 08:38:00; author: pav; state: Exp; lines: +28 -12
- Fix build on CURRENT with GCC 4.2

Submitted by: tegge (maintainer)

v. 1.48
date: 2007/03/21 21:52:01; author: tegge; state: Exp; lines: +1 -1
Bump port v. after changes to the backported fix for pthread manager
pipe communication.

v. 1.47
date: 2007/01/30 10:25:24; author: pav; state: Exp; lines: +2 -5
- Remove support for a.out format and PORTOBJFORMAT variable from individual
ports

With hat: portmgr

v. 1.46

date: 2006/05/28 17:47:01; author: tegge; state: Exp; lines: +1 -1
Bump port v. due to pthread manager pipe communication fix.

v. 1.45

date: 2006/05/28 17:26:09; author: tegge; state: Exp; lines: +1 -1
Use pre-su-install target.

PR: 96147

Submitted by: Michael Neumann

v. 1.44

date: 2006/01/24 01:05:01; author: tegge; state: Exp; lines: +1 -1
Backport 2002-04-24 fix from newer linuxthreads versions to avoid hangs
or busy wait loop due to race between timeout and pthread_cond_signal.

v. 1.43

date: 2005/09/10 20:47:38; author: pav; state: Exp; lines: +2 -2
- Fix conditionals for ancient make(1)

PR: ports/84482

Submitted by: Brent B. Powers

Approved by: maintainer timeout (tegge; 1 month)

v. 1.42

date: 2005/07/25 14:58:02; author: tegge; state: Exp; lines: +6 -1
Catch up with shared library version bump in FreeBSD >= 6.0.

v. 1.41

date: 2005/07/22 22:20:21; author: tegge; state: Exp; lines: +44 -13
Check for NO_PIC and NO_PROFILE on FreeBSD >= 6.0.

Add sys/_pthreadtypes.h to allow compilation on FreeBSD >= 6.0.

Initialize signal trampoline variables earlier to avoid race in wrapper
around sigaction.

Fix known API wrapper bugs.

Port compile time options:

Add option for using an alternate restart signal instead of SIGUSR2.

Add options for adjustment of maximum thread stack size and maximum
number of threads.

Make all options start with LINUXTHREADS_

Note that complete FreeBSD source matching userland must be installed
in /usr/src when compiling this port.

v. 1.40

date: 2005/07/20 23:56:02; author: kris; state: Exp; lines: +4 -0
BROKEN on FreeBSD >= 6.0: Does not compile

v. 1.39

date: 2004/11/22 17:57:45; author: tegge; state: Exp; lines: +1 -1
Align stack address for new threads.

v. 1.38

date: 2004/03/21 20:22:14; author: tegge; state: Exp; lines: +2 -1
Stop wrapping gethost* functions on 5.2-CURRENT.

v. 1.37

date: 2004/02/27 23:32:54; author: tegge; state: Exp; lines: +20 -2
Add option to ignore posix priority scheduling.
Add threadsafe versions of some libc functions on FreeBSD 4.x.
Register liblgcc_r_pic.a as installed for FreeBSD 5.x.

v. 1.36

date: 2003/07/14 12:15:03; author: tegge; state: Exp; lines: +1 -1
Restore gethostbyaddr_r wrapper and remove getpw{nam,uid}_r wrappers for
newer versions of FreeBSD 5.X.

Drop use of deprecated AINC variable.

Reenable use of ld(1) to restore the LINUXTHREADS_WRAP_API option.

Rename __thread to __xthread in prototypes to avoid conflict with new gcc keyword.

Bump port revision.

v. 1.35

date: 2003/06/09 03:48:30; author: tegge; state: Exp; lines: +30 -2
Add new experimental option, LINUXTHREADS_WRAP_API, that adds wrapper functions providing most of the native threads API while avoiding name clashes by transparently prefixing all function names that directly provide the linuxthreads API.

v. 1.34

date: 2003/03/27 01:29:24; author: tegge; state: Exp; lines: +1 -1
Add __spinunlock() to keep up with libc change in 5.0-CURRENT.

v. 1.33

date: 2003/03/07 06:00:45; author: ade; state: Exp; lines: +1 -0
Clear moonlight beckons.
Requiem mors pacem pkg-comment,
And be calm ports tree.

E Nomini Patri, E Fili, E Spiritu Sancti.

v. 1.32

date: 2003/02/25 00:27:37; author: tegge; state: Exp; lines: +11 -1
Make detection of unsafe calls to exit() optional and not default.

Reviewed by: mbr

v. 1.31

date: 2002/11/19 16:07:02; author: tegge; state: Exp; lines: +1 -1
Fix build failure on 5.0-CURRENT by including necessary headers.

v. 1.30

date: 2002/09/06 15:03:19; author: tegge; state: Exp; lines: +1 -1
Bump port v. to reflect memory leak fix.

v. 1.29

date: 2002/06/18 20:32:21; author: tegge; state: Exp; lines: +14 -1
Register PIC archives when INSTALL_PIC_ARCHIVE has been defined.
Defining INSTALL_LIBLTHREAD_PIC_ARCHIVE causes installation and registration of PIC archive for liblthread, which can be used to generate a shared liblthread library for a different gcc installation.
Bump port revision.

v. 1.28

date: 2002/06/08 20:58:53; author: tegge; state: Exp; lines: +19 -20
Reduce number of portlint errors/warnings.

v. 1.27

date: 2002/06/08 18:27:19; author: tegge; state: Exp; lines: +85 -8
Build linuxthreads version of libstdc++ and libsupc++ under 5.0-CURRENT.
Don't misuse DESTDIR when building linuxthreads version of libgcc.
Fix varargs warning under 5.0-CURRENT.
Don't try to register profiled libraries when NOPROFILE has been specified.
Don't try to register shared libraries when NOPIC has been specified.
Bump port revision.

PR: 38876

v. 1.26

date: 2002/04/22 16:50:01; author: tegge; state: Exp; lines: +1 -1
Fix hang caused by a thread calling exit():

- Block cancel signal while creating new thread to avoid losing the signal.
 - Terminate the process with __exit(1) if it's unsafe to continue calling atexit functions and destructors.
-

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date: 2002/03/10 01:24:23; author: tegge; state: Exp; lines: +11 -3
Document that FreeBSD source code is needed to build linuxthreads port.
Add sanity check for presence of needed FreeBSD source code.
Unbreak compilation on 5.0-CURRENT, DEFS.h is no longer available.
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Handle internal race that caused pthread_cond_timedwait() to block waiting for a signal that wasn't sent.

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date: 2001/09/09 01:12:47; author: tegge; state: Exp; lines: +21 -2
Add an optional experimental patch that reduce the number of context switches on UP systems when the thread waiting on a condition has a higher priority than the thread signalling the condition.

Bump port revision.

v. 1.22

date: 2001/07/01 17:36:24; author: tegge; state: Exp; lines: +2 -4
Backout library major number bump. It wasn't needed. Additionally, ldconfig -r didn't list the library, making it impossible for other ports to depend on the linuxthreads port.

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Submitted by: tegge

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Change PKGDIR from pkg/ to . Also fix places where \${PKGDIR} is spelled out (many of which are \${PKGDIR}/MESSAGE -> \${PKGMESSAGE} type fixes that shouldn't have been necessary) and the string "/pkg/" appear.

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date: 2000/09/25 12:21:14; author: asami; state: Exp; lines: +2 -4
Eliminate WRKSRC=\${WRKDIR}/\${PKGNAME} lines, as these will break when PORTREVISION or PORTEPOCH are defined.

Most of these Makefiles were defining DISTNAME and WRKSRC (and sometimes EXTRACT_SUFX) -- change those to define DISTFILES only. Also, some of the WRKSRC lines were not even necessary, as they were defining it to the default value.

Instigated by: Peter Pentchev and kris

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v. 1.12
date: 2000/04/11 21:28:55; author: mharo; state: Exp; lines: +9 -9
PORTNAME/PORTVERSION update

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date: 2000/02/01 03:39:26; author: jasone; state: Exp; lines: +2 -2
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which only very recently started to work correctly with linuxthreads.

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date: 2000/01/29 03:15:21; author: jasone; state: Exp; lines: +6 -6
Back out changes to lock functions passed to dlockinit().

Don't compile the lockfile.c that comes with LinuxThreads.

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date: 2000/01/25 22:37:07; author: jasone; state: Exp; lines: +5 -4
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date: 2000/01/04 18:21:16; author: jasone; state: Exp; lines: +5 -5
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neglected the Makefile twice.

Submitted by: dick

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date: 1999/12/28 15:18:32; author: jasone; state: Exp; lines: +17 -22
Somehow, I missed the Makefile when committing the updated linuxthreads
port.

PR: 15724

v. 1.5
date: 1999/12/04 18:44:59; author: julian; state: Exp; lines: +3 -2
New documentation from Richard and Russell.
Change Maintainer to Jason Evans

Submitted by: "Richard Seaman, Jr."

v. 1.4
date: 1999/12/02 02:14:13; author: julian; state: Exp; lines: +10 -1
Submitted by: "Russell L. Carter"
more tuning

v. 1.3
date: 1999/12/01 00:08:28; author: julian; state: Exp; lines: +2 -1
Mark as only x86
Submitted by: Andrew Gallatin

v. 1.2
date: 1999/11/30 15:59:40; author: billf; state: Exp; lines: +2 -2
Smarter WRKSRC definition.

v. 1.1
date: 1999/11/30 09:07:14; author: julian; state: Exp;
Reviewed by: Russell Carter
Submitted by: "Richard Seaman, Jr."

Native FreeBSD port of the linuxthreads library
Includes added files and stuff you need to add to the rest of your system.
This is for -current I'm sure Richard's older version might be
a good place to start for a 3.x version.

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