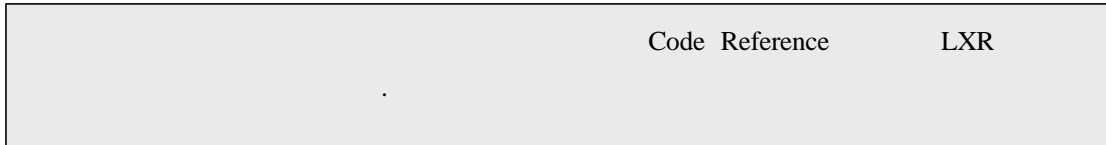




Source Code Reference LXR

Installation of LXR (Linux Cross-Reference) for Source Code Reference



Code Reference LXR



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1.

Linux Cross-Reference (LXR) Hypertext Cross-referencing Tool Function declarations, Data
(type) definitions Preprocessor macros
Source Code . LXR

2. LXR

2.1 LXR

<http://lxr.linux.no/> LXR (<http://lxr.linux.no/lxr-0.3.tar.gz>)

2.2 LXR

2.2.1 LXR

LXR Perl (<http://www.perl.com/language/info/software.html>) Glimpse
(<http://webglimpse.net/trial/glimpse-4.15.tar.gz>) . Glimpse Freetext Search
query

2.2.2 LXR

lxr-0.3.tar.gz 'tar zxvf lxr-0.3.tar.gz' 'gunzip lxr-0.3.tar.gz ; tar
xvf lxr-0.3.tar' . lxr-0.3 가 . lxr-0.3
Makefile 가 PERLBIN INSTALLPREFIX .
PERLBIN perl INSTALLPREFIX LXR
. < 1> Makefile

```
...  
PERLBIN=/usr/bin/perl  
INSTALLPREFIX=/home/httpd/html/lxr  
...
```

< 1> LXR Makefile



(/home/httpd/html/lxr) LXR 'make install' INSTALLPREFIX .

2.3 LXR `lxr.conf`

LXR `lxr.conf` `$(INSTALLPREFIX)/http/lxr.conf` LXR
. < 2> `lxr.conf`
.

```
# Define typed variable "v", read valueset from file.  
variable: v, Version, [/home/httpd/html/lxr/source/versions], [/home/httpd/html/lxr/source/defversion]  
# Define typed variable "a". First value is default.  
variable: a, Architecture, (i386, alpha, m68k, mips, ppc, sparc, sparc64)  
# Define the base url for the LXR files.  
baseurl: http://lxr.adhoc.6ants.net/  
# These are the templates for the HTML heading, directory listing and footer, respectively.  
htmlhead: /home/httpd/html/lxr/http/template-head  
htmltail: /home/httpd/html/lxr/http/template-tail  
htmldir: /home/httpd/html/lxr/http/template-dir  
# The source is here.  
sourceroot: /home/httpd/html/lxr/source/$v/linux/  
srcrootname: Linux  
# "#include <foo.h>" is mapped to this directory (in the LXR source tree)  
incprefix: /include  
# The database files go here.  
dbdir: /home/httpd/html/lxr/source/$v  
# Glimpse can be found here.  
glimpsebin: /usr/local/bin/glimpse  
# The power of regexps. This is pretty Linux-specific, but quite  
# useful. Tinker with it and see what it does. (How's that for documentation?)  
map: /include/asm[^\v]*/ /include/asm-$a/  
map: /arch/[^\\v]+/ /arch/$a/
```

< 2> `lxr.conf`

`lxr.conf` LXR CGI Script source, ident, diff, find, search



lxr.conf Symbolic Link . , < 3> lxr.conf
Symbolic Link .

```
[root@paul /]# cd /home/httpd/html/lxr/http  
[root@paul lxr]# ln -s lxr.conf source1lxr.conf  
[root@paul lxr]# ln -s lxr.conf diff1lxr.conf  
[root@paul lxr]# ln -s lxr.conf find1lxr.conf  
[root@paul lxr]# ln -s lxr.conf search1lxr.conf  
[root@paul lxr]# ln -s lxr.conf ident1lxr.conf
```

< 3> lxr.conf Symbolic Link



2.4

2.4.1 httpd.conf

```
< 4> LXR Apache Server httpd.conf
. LXR Domain Name lxr.adhoc.6ants.net . Domain
Name Name Server . httpd.conf 'apachectl restart'
httpd . Apache
2.0.35 ('httpd -v' Apache ).
```

```
...
ServerAdmin paul@etri.re.kr
DocumentRoot "/home/httpd/html"
...
#@added by jaehoon for lxr, 2002/5/12
<Directory /home/httpd/html/lxr>
    Options All
    # AllowOverride controls what directives may be placed in .htaccess files.
    # It can be "All", "None", or any combination of the keywords: Options FileInfo AuthConfig Limit
    AllowOverride All
</Directory>
...
# AccessFileName: The name of the file to look for in each directory
# for access control information. See also the AllowOverride directive.
AccessFileName .htaccess
...
# Use name-based virtual hosting.
NameVirtualHost 129.254.112.193
<VirtualHost 129.254.112.193>
    ServerAdmin paul@etri.re.kr
    DocumentRoot /home/httpd/html/lxr/http
    ServerName lxr.adhoc.6ants.net
    ErrorLog logs/lxr-error_log
    CustomLog logs/lxr-access_log common
</VirtualHost>
```

< 4> httpd.conf



2.4.2 .htaccess

LXR CGI Script (source, find, search, ident, diff)가 LXR (/home/httpd/html/lxr/
 /home/httpd/html/lxr/ < 5> .htaccess

```
<Files ~ (search|source|ident|diff|find)$>
  SetHandler cgi-script
</Files>
```

< 5> httpd.conf

2.5

Reference Code /home/httpd/html/lxr/source Code
 Version /home/httpd/html/lxr/source/versions . /home/httpd/html/lxr/
 source/defversion . , NS2
 ns-2.1b8a LXR ns-2.1b8a < 6>
 versions .

```
ns-2.1b8a
```

< 6> versions

Source Code

/home/httpd/html/lxr/source/ ns-2.1b8a ns-
 2.1b8a linux ns-2.1b8a Source Code . <
 7> Source Code
 linux가 Symbolic Link Source Code 가
 , LXR 'freetext search' 'file search'가
 Source Code linux
 Source Code .



```
[root@paul source]# pwd
/home/httpd/html/lxr/source
[root@paul source]# ls
defversion ns-2.1b8a versions
[root@paul source]# cd ns-2.1b8a/
[root@paul ns-2.1b8a]# ls -l
total 8
drwxr-xr-x  34 root   root   8192 Apr  7 17:56 linux
[root@paul ns-2.1b8a]# ls linux/
ack-recons.cc      indep-utils      rtqueue.h
ack-recons.h       install-sh       rtable.cc
acto-adc.cc        INSTALL.WIN32    rtable.h
...
```

< 7> Source Code



2.6 LXR

LXR	Code Reference	. LXR	fileidx	xref
	< 8> genxref	.		
Source Code		. Compile		
Object	Log	LXR		
, 'make clean'	'make distclean'	make	Source Code	Makefile
Cleaning	Object	Log		
fileidx	644가	genxref		
, fileidx	640	가 fileidx	LXR	
.	chmod fileidx	644		

```
[root@paul ns-2.1b8a]# pwd
/home/httpd/html/lxr/source/ns-2.1b8a
[root@paul ns-2.1b8a]# /home/httpd/html/lxr/bin/genxref linux/
...
[root@paul ns-2.1b8a]# ls -l
total 848
-rw-r----- 1 root root 24576 May 12 23:37 fileidx
drwxr-xr-x 34 root root 8192 Apr 7 17:56 linux
-rw-r--r-- 1 root root 937984 May 12 23:37 xref
[root@paul ns-2.1b8a]# chmod 644 fileidx
[root@paul ns-2.1b8a]# ls -l
total 848
-rw-r--r-- 1 root root 24576 May 12 23:37 fileidx
drwxr-xr-x 34 root root 8192 Apr 7 17:56 linux
-rw-r--r-- 1 root root 937984 May 12 23:37 xref
[root@paul ns-2.1b8a]#
```

< 8> LXR

2.7 Glimpse

Freetext search Glimpse < 9> .-H
Glimpse 'H.' Glimpse
2.6 Glimpse
644 . chmod < 9> Glimpse
644 .

```
[root@paul ns-2.1b8a]# pwd
/home/httpd/html/lxr/source/ns-2.1b8a
[root@paul ns-2.1b8a]# glimpseindex -H . linux/
Glimpse-files created here:
-rw----- 1 root root 96986 May 12 23:55 .glimpse_filenames
-rw----- 1 root root 5884 May 12 23:55 .glimpse_filenames_index
-rw----- 1 root root 0 May 12 23:55 .glimpse_filetimes
-rw----- 1 root root 493617 May 12 23:55 .glimpse_index
-rw----- 1 root root 116 May 12 23:55 .glimpse_messages
-rw----- 1 root root 856 May 12 23:55 .glimpse_partitions
-rw----- 1 root root 11647 May 12 23:55 .glimpse_statistics
[root@paul ns-2.1b8a]# chmod 644 .glimpse_*
[root@paul ns-2.1b8a]# ls -al
total 1472
drwxr-xr-x 3 root root 4096 May 12 23:55 .
drwxr-xr-x 3 root root 4096 May 12 21:44 ..
-rw-r--r-- 1 root root 24576 May 12 23:37 fileidx
-rw-r--r-- 1 root root 96986 May 12 23:55 .glimpse_filenames
-rw-r--r-- 1 root root 5884 May 12 23:55 .glimpse_filenames_index
-rw-r--r-- 1 root root 0 May 12 23:55 .glimpse_filetimes
-rw-r--r-- 1 root root 493617 May 12 23:55 .glimpse_index
-rw-r--r-- 1 root root 116 May 12 23:55 .glimpse_messages
-rw-r--r-- 1 root root 856 May 12 23:55 .glimpse_partitions
-rw-r--r-- 1 root root 11647 May 12 23:55 .glimpse_statistics
drwxr-xr-x 34 root root 8192 Apr 7 17:56 linux
-rw-r--r-- 1 root root 937984 May 12 23:37 xref
```

< 9> Glimpse

3. LXR

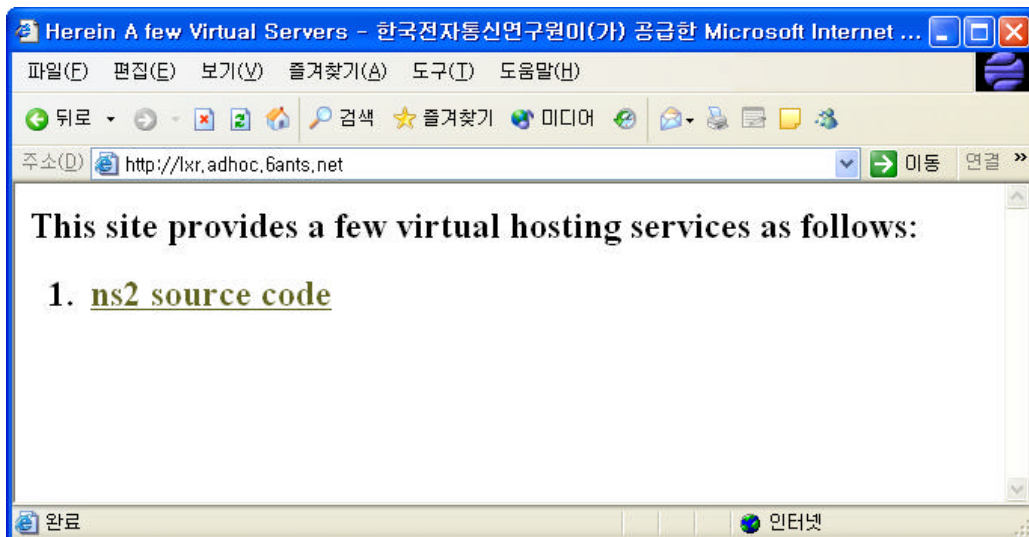
3.1 LXR

< 10> index.html . <

11> LXR

```
<HTML>
<HEAD>
<TITLE>Herein A few Virtual Servers</TITLE>
</HEAD>
<BODY>
<h2>
This site provides a few virtual hosting services as follows:
<ol>
<li> <a href="http://lxr.adhoc.6ants.net/source/?v=ns-2.1b8a">ns2 source code</a> <p>
</ol>
</h2>
</BODY>
</HTML>
```

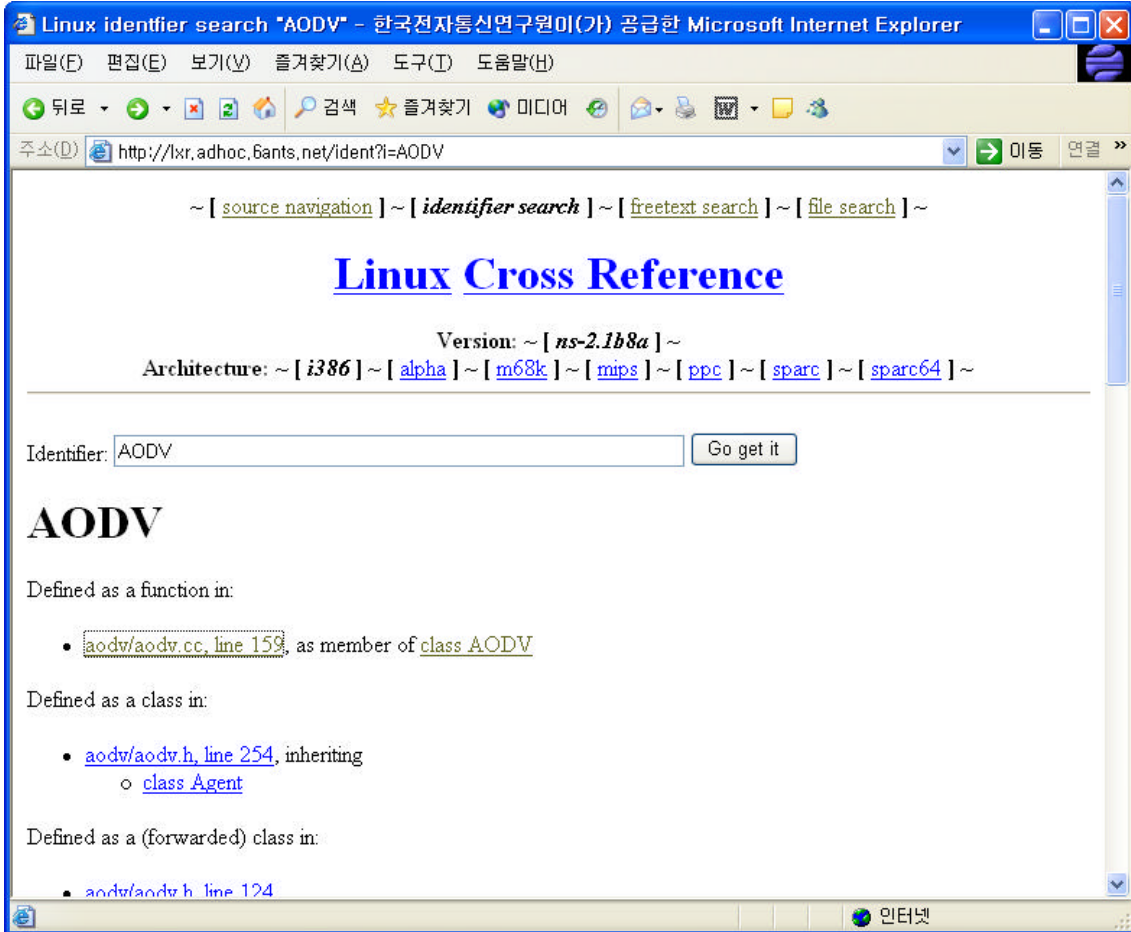
< 10> LXR index.html



< 11> LXR

3.2 Identifier

< 11> 'ns2 source code' LXR
'identifier search' NS2 Identifier . < 12>
AODV Identifier

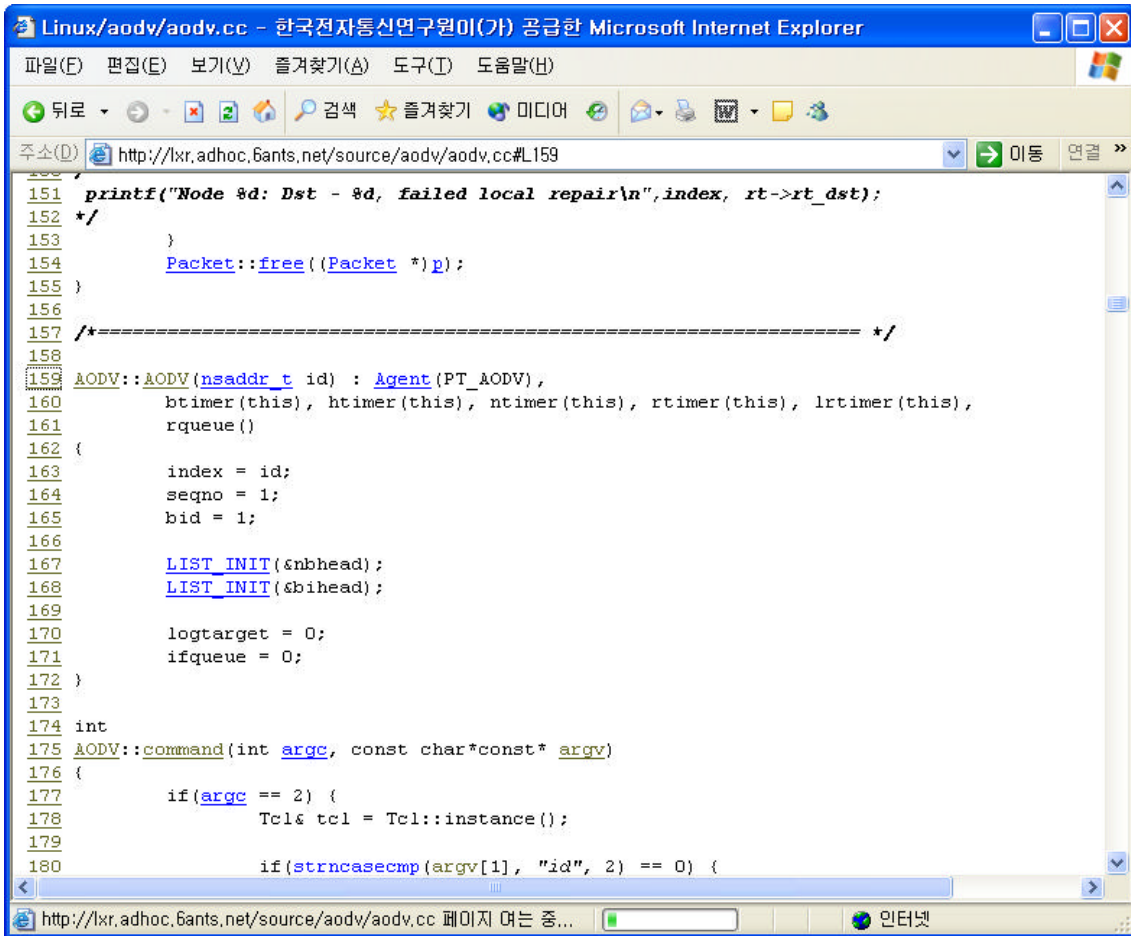


< 12> LXR Identifier

< 13> aodv/aodv.cc AODV Identifier가 NS2 Source Code

4.

Source Code Linux Cross-Reference LXR
. LXR Source Code



```
151 printf("Node %d: Dst - %d, failed local repair\n", index, rt->rt_dst);
152 */
153     }
154     Packet::free((Packet *)p);
155 }
156
157 /*===== */
158
159 AODV::AODV(nsaddr_t id) : Agent(PT_AODV),
160     btimer(this), htimer(this), ntimer(this), rtimer(this), lrtimer(this),
161     rqueue()
162 {
163     index = id;
164     seqno = 1;
165     bid = 1;
166
167     LIST_INIT(&nbhead);
168     LIST_INIT(&bihead);
169
170     logtarget = 0;
171     ifqueue = 0;
172 }
173
174 int
175 AODV::command(int argc, const char*const* argv)
176 {
177     if(argc == 2) {
178         Tcl& tcl = Tcl::instance();
179
180         if(strncasecmp(argv[1], "id", 2) == 0) {
```



5.

history .

ver.				
1.0	2002.05.12			