



## Open Source Used In Cisco Nexus 1000V Switch for Microsoft Hyper-V, Release 5.2(1)SM3(2.1)

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From strings/apr\_strnatcmp.c, include/apr\_strings.h:

strnatcmp.c -- Perform 'natural order' comparisons of strings in C.  
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```
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```
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Written by: Philip Hazel <ph10@cam.ac.uk>

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=====
```

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Written by Adam Twiss (adam@zeus.co.uk). March 1996

Thanks to the following people for their input:

Mike Belshe (mbelshe@netscape.com)

Michael Campanella (campanella@stevms.enet.dec.com)

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Ty Coon, President of Vice

That's all there is to it!

/\* nicstar.c v0.22 Jawaid Bazyar (bazyar@hypermall.com)

\* nicstar.c, M. Welsh (matt.welsh@cl.cam.ac.uk)

\*  
 \* Hacked October, 1997 by Jawaid Bazyar, Interlink Advertising Services Inc.  
 \* <http://www.hypermall.com/>  
 \* 10/1/97 - commented out CFG\_PHYIE bit - we don't care when the PHY  
 \* interrupts us (except possibly for removal/insertion of the cable?)  
 \* 10/4/97 - began heavy inline documentation of the code. Corrected typos  
 \* and spelling mistakes.  
 \* 10/5/97 - added code to handle PHY interrupts, disable PHY on  
 \* loss of link, and correctly re-enable PHY when link is  
 \* re-established. (put back CFG\_PHYIE)  
 \*  
 \* Modified to work with the IDT7721 nicstar -- AAL5 (tested) only.  
 \*  
 \* R. D. Rechenmacher <ron@fnal.gov>, Aug. 6, 1997  
 \*  
 \* Linux driver for the IDT77201 NICStAR PCI ATM controller.  
 \* PHY component is expected to be 155 Mbps S/UNI-Lite or IDT 77155;  
 \* see init\_nicstar() for PHY initialization to change this. This driver  
 \* expects the Linux ATM stack to support scatter-gather lists  
 \* (skb->atm.iovcnt != 0) for Rx skb's passed to vcc->push.  
 \*  
 \* Implementing minimal-copy of received data:  
 \* IDT always receives data into a small buffer, then large buffers  
 \* as needed. This means that data must always be copied to create  
 \* the linear buffer needed by most non-ATM protocol stacks (e.g. IP)  
 \* Fix is simple: make large buffers large enough to hold entire  
 \* SDU, and leave <small\_buffer\_data> bytes empty at the start. Then  
 \* copy small buffer contents to head of large buffer.  
 \* Trick is to avoid fragmenting Linux, due to need for a lot of large  
 \* buffers. This is done by 2 things:  
 \* 1) skb->destructor / skb->atm.recycle\_buffer  
 \* combined, allow nicstar\_free\_rx\_skb to be called to  
 \* recycle large data buffers  
 \* 2) skb\_clone of received buffers  
 \* See nicstar\_free\_rx\_skb and linearize\_buffer for implementation  
 \* details.  
 \*  
 \*  
 \*  
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 \*  
 \* M. Welsh, 6 July 1996  
 \*  
 \*  
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## 1.21 mailapi 1.4.6

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```

```
package javax.mail;
```

```
import java.io.Serializable;
```

```

/**
 * This abstract class models the addresses in a message.
 * Subclasses provide specific implementations. Subclasses
 * will typically be serializable so that (for example) the
 * use of Address objects in search terms can be serialized
 * along with the search terms.
 *
 * @author John Mani
 * @author Bill Shannon
 */

```

```
public abstract class Address implements Serializable {
```

```
    private static final long serialVersionUID = -5822459626751992278L;
```

```

    /**
     * Return a type string that identifies this address type.
     *
     * @return address type
     * @see javax.mail.internet.InternetAddress
     */

```

```
    public abstract String getType();
```

```

    /**
     * Return a String representation of this address object.
     *
     * @return string representation of this address
     */

```

```

public abstract String toString();

/**
 * The equality operator. Subclasses should provide an
 * implementation of this method that supports value equality
 * (do the two Address objects represent the same destination?),
 * not object reference equality. A subclass must also provide
 * a corresponding implementation of the <code>hashCode</code>
 * method that preserves the general contract of
 * <code>equals</code> and <code>hashCode</code> - objects that
 * compare as equal must have the same hashCode.
 *
 * @param address Address object
 */
public abstract boolean equals(Object address);
}

```

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jpg "Clone me," says Dolly sheepishly.

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# registered,
# unregistered and then registered again. This causes the udev event to fire twice and this script runs twice.
# Since the first invocation of the script races with the device unregistration, spurious errors are possible
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## 1.29 saaj 1.4

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package org.apache.axis.client ;

import org.apache.axis.AxisFault;

import org.apache.axis.EngineConfiguration;

```

import org.apache.axis.components.logger.LogFactory;
import org.apache.axis.deployment.wsdd.WSDDConstants;
import org.apache.axis.message.SOAPBodyElement;
import org.apache.axis.utils.Messages;
import org.apache.axis.utils.Options;
import org.apache.axis.utils.StringUtils;
import org.apache.commons.logging.Log;

import javax.xml.rpc.ServiceException;
import java.io.ByteArrayInputStream;
import java.io.FileInputStream;
import java.io.InputStream;
import java.net.URL;
import java.util.Vector;

/**
 * An admin client object that can be used both from the command line
 * and programmatically.
 *
 * @author Rob Jellinghaus (robj@unrealities.com)
 * @author Doug Davis (dug@us.ibm.com)
 * @author Simeon Simeonov (simeons@macromedia.com)
 */

public class AdminClient
{
    protected static Log log =
        LogFactory.getLog(AdminClient.class.getName());

    private static ThreadLocal defaultConfiguration = new ThreadLocal();

    /**
     * If the user calls this with an EngineConfiguration object, all
     * AdminClients on this thread will use that EngineConfiguration
     * rather than the default one. This is primarily to enable the
     * deployment of custom transports and handlers.
     *
     * @param config the EngineConfiguration which should be used
     */
    public static void setDefaultConfiguration(EngineConfiguration config)
    {
        defaultConfiguration.set(config);
    }

    private static String getUsageInfo()
    {
        String lSep = System.getProperty("line.separator");

```

```

StringBuffer msg = new StringBuffer();
// 26 is the # of lines in resources.properties
msg.append(Messages.getMessage("acUsage00")).append(lSep);
msg.append(Messages.getMessage("acUsage01")).append(lSep);
msg.append(Messages.getMessage("acUsage02")).append(lSep);
msg.append(Messages.getMessage("acUsage03")).append(lSep);
msg.append(Messages.getMessage("acUsage04")).append(lSep);
msg.append(Messages.getMessage("acUsage05")).append(lSep);
msg.append(Messages.getMessage("acUsage06")).append(lSep);
msg.append(Messages.getMessage("acUsage07")).append(lSep);
msg.append(Messages.getMessage("acUsage08")).append(lSep);
msg.append(Messages.getMessage("acUsage09")).append(lSep);
msg.append(Messages.getMessage("acUsage10")).append(lSep);
msg.append(Messages.getMessage("acUsage11")).append(lSep);
msg.append(Messages.getMessage("acUsage12")).append(lSep);
msg.append(Messages.getMessage("acUsage13")).append(lSep);
msg.append(Messages.getMessage("acUsage14")).append(lSep);
msg.append(Messages.getMessage("acUsage15")).append(lSep);
msg.append(Messages.getMessage("acUsage16")).append(lSep);
msg.append(Messages.getMessage("acUsage17")).append(lSep);
msg.append(Messages.getMessage("acUsage18")).append(lSep);
msg.append(Messages.getMessage("acUsage19")).append(lSep);
msg.append(Messages.getMessage("acUsage20")).append(lSep);
msg.append(Messages.getMessage("acUsage21")).append(lSep);
msg.append(Messages.getMessage("acUsage22")).append(lSep);
msg.append(Messages.getMessage("acUsage23")).append(lSep);
msg.append(Messages.getMessage("acUsage24")).append(lSep);
msg.append(Messages.getMessage("acUsage25")).append(lSep);
msg.append(Messages.getMessage("acUsage26")).append(lSep);
return msg.toString();
}

/**
 * the object that represents our call
 */
protected Call call;

/**
 * Construct an admin client w/o a logger.
 * If the client cannot create a call object, then it does not throw an exception.
 * Instead it prints a message to { @link System.err}.
 * This is for 'historical reasons'
 */
public AdminClient()
{
    try {
        initAdminClient();
    }
}

```

```

    } catch (ServiceException e) {
        System.err.println(Messages.getMessage("couldntCall00") + ": " + e);
        call = null;
    }
}

/**
 * this is a somewhat contrived variant constructor, one that throws an exception
 * if things go wrong.
 * @param ignored
 */
public AdminClient(boolean ignored) throws ServiceException {
    initAdminClient();
}

/**
 * core initialisation routine
 *
 * @throws ServiceException
 */
private void initAdminClient() throws ServiceException {
    // Initialize our Service - allow the user to override the
    // default configuration with a thread-local version (see
    // setDefaultConfiguration() above)
    EngineConfiguration config =
        (EngineConfiguration) defaultConfiguration.get();
    Service service;
    if (config != null) {
        service = new Service(config);
    } else {
        service = new Service();
    }
    call = (Call) service.createCall();
}

/**
 * External access to our <code>Call</code> object.
 * This will be null if the non-excepting constructor was used
 * and the construction failed.
 * @return the <code>Call</code> object this instance uses
 */
public Call getCall()
{
    return call;
}

```

```

/**
 * process the options then run a list call
 * @param opts
 * @return
 * @throws Exception
 */
public String list(Options opts) throws Exception {
    processOpts( opts );
    return list();
}

/**
 * send a list command
 * @return the response from the call
 * @throws Exception
 */
public String list() throws Exception {
    log.debug( Messages.getMessage("doList00") );
    String      str  = "<m:list xmlns:m=\"" + WSDDConstants.URI_WSDD + "\"/>";
    ByteArrayInputStream input = new ByteArrayInputStream(str.getBytes());
    return process(input);
}

/**
 * process the command line ops, then send a quit command
 * @param opts
 * @return
 * @throws Exception
 */
public String quit(Options opts) throws Exception {
    processOpts( opts );
    return quit();
}

/**
 * root element of the undeploy request
 */
protected static final String ROOT_UNDEPLOY= WSDDConstants.QNAME_UNDEPLOY.getLocalPart();

/**
 * make a quit command
 * @return
 * @throws Exception
 */
public String quit() throws Exception {
    log.debug(Messages.getMessage("doQuit00"));
    String      str  = "<m:quit xmlns:m=\"" + WSDDConstants.URI_WSDD + "\"/>";
    ByteArrayInputStream input = new ByteArrayInputStream(str.getBytes());

```

```

        return process(input);
    }

/**
 * undeploy a handler
 * @param handlerName name of the handler to undeploy
 * @return
 * @throws Exception
 */
public String undeployHandler(String handlerName) throws Exception {
    log.debug(Messages.getMessage("doQuit00"));
    String str = "<m:" + ROOT_UNDEPLOY + " xmlns:m=\"" + WSDDConstants.URI_WSDD + "\">" +
        "<handler name=\"" + handlerName + "\"/>" +
        "</m:" + ROOT_UNDEPLOY + ">" ;
    ByteArrayInputStream input = new ByteArrayInputStream(str.getBytes());
    return process(input);
}

/**
 * undeploy a service
 * @param serviceName name of service
 * @return
 * @throws Exception
 */
public String undeployService(String serviceName) throws Exception {
    log.debug(Messages.getMessage("doQuit00"));
    String str = "<m:" + ROOT_UNDEPLOY + " xmlns:m=\"" + WSDDConstants.URI_WSDD + "\">" +
        "<service name=\"" + serviceName + "\"/>" +
        "</m:" + ROOT_UNDEPLOY + ">" ;
    ByteArrayInputStream input = new ByteArrayInputStream(str.getBytes());
    return process(input);
}

/**
 * <p>Processes a set of administration commands.</p>
 * <p>The following commands are available:</p>
 * <ul>
 * <li><code>-l<i>url</i></code> sets the AxisServlet URL</li>
 * <li><code>-h<i>hostName</i></code> sets the AxisServlet host</li>
 * <li><code>-p<i>portNumber</i></code> sets the AxisServlet port</li>
 * <li><code>-s<i>servletPath</i></code> sets the path to the
 *     AxisServlet</li>
 * <li><code>-f<i>fileName</i></code> specifies that a simple file
 *     protocol should be used</li>
 * <li><code>-u<i>username</i></code> sets the username</li>
 * <li><code>-w<i>password</i></code> sets the password</li>
 * <li><code>-d</code> sets the debug flag (for instance, -ddd would
 *     set it to 3)</li>

```



- \* `-t name` sets the transport chain touse
- \* `list` will list the currently deployed services
- \* `quit` will quit (???)
- \* `passwd value` changes the admin password
- \* `xmlConfigFile` deploys or undeploys Axis components and web services

If `-l` or `-h -p -s` are not set, the AdminClient will invoke `http://localhost:8080/axis/servlet/AxisServlet`.

@param args Commands to process  
 @return XML result or null in case of failure. In the case of multiple commands, the XML results will be concatenated, separated by \n  
 @exception Exception Could be an IO exception, an AxisFault or something else

```

public String process(String[] args) throws Exception {
    StringBuffer sb = new StringBuffer();

    Options opts = new Options( args );
    opts.setDefaultURL("http://localhost:8080/axis/services/AdminService");

    if (opts.isFlagSet('d') > 0) {
        // Set logger properties... !!!
    }

    args = opts.getRemainingArgs();

    if ( args == null || opts.isFlagSet('?') > 0) {
        System.out.println(Messages.getMessage("usage00","AdminClient [Options] [list | <deployment-descriptor-files>]"));
        System.out.println("");
        System.out.println(getUsageInfo());
        return null;
    }

    for ( int i = 0 ; i < args.length ; i++ ) {
        InputStream input = null;

        if ( args[i].equals("list") )
            sb.append( list(opts) );
        else if (args[i].equals("quit"))
            sb.append( quit(opts) );
        else if (args[i].equals("passwd")) {
            System.out.println(Messages.getMessage("changePwd00"));
            if (args[i + 1] == null) {
                System.err.println(Messages.getMessage("needPwd00"));
            }
        }
    }
  
```

```

        return null;
    }
    String str = "<m:passwd xmlns:m=\"http://xml.apache.org/axis/wsdd/\">";
    str += args[i + 1];
    str += "</m:passwd>";
    input = new ByteArrayInputStream(str.getBytes());
    i++;
    sb.append( process(opts, input) );
}
else {
    if(args[i].indexOf(java.io.File.pathSeparatorChar)==-1){
        System.out.println( Messages.getMessage("processFile00", args[i]) );
        sb.append( process(opts, args[i] ) );
    } else {
        java.util.StringTokenizer tokenizer = null ;
        tokenizer = new java.util.StringTokenizer(args[i],
            java.io.File.pathSeparator);
        while(tokenizer.hasMoreTokens()) {
            String file = tokenizer.nextToken();
            System.out.println( Messages.getMessage("processFile00", file) );
            sb.append( process(opts, file) );
            if(tokenizer.hasMoreTokens())
                sb.append("\n");
        }
    }
}
}

return sb.toString();
}

/**
 * go from the (parsed) command line to setting properties on our call object.
 * @param opts
 * @throws Exception if call==null
 */
public void processOpts(Options opts) throws Exception {
    if (call == null) {
        throw new Exception(Messages.getMessage("nullCall00"));
    }

    URL address = new URL(opts.getURL());
    setTargetEndpointAddress(address);
    setLogin(opts.getUser(), opts.getPassword());

    String tName = opts.isValueSet( 't' );
    setTransport(tName);
}

```

```

/**
 * set the username and password
 * requires that call!=null
 * @param user username
 * @param password password
 */
public void setLogin(String user, String password) {
    call.setUsername( user );
    call.setPassword( password );
}

/**
 * set the URL to deploy to
 * requires that call!=null
 * @param address
 */
public void setTargetEndpointAddress(URL address) {
    call.setTargetEndpointAddress( address );
}

/**
 * set the transport to deploy with.
 * requires that call!=null
 * @param transportName a null or empty value does not trigger a setting
 */
public void setTransport(String transportName) {
    if(transportName != null && !transportName.equals("")) {
        call.setProperty( Call.TRANSPORT_NAME, transportName );
    }
}

public String process(InputStream input) throws Exception {
    return process(null, input );
}

public String process(URL xmlURL) throws Exception {
    return process(null, xmlURL.openStream() );
}

/**
 * process an XML file containing a pre-prepared admin message
 * @param xmlFile file to load
 * @return
 * @throws Exception
 */
public String process(String xmlFile) throws Exception {
    FileInputStream in = new FileInputStream(xmlFile);

```

```

        String result = process(null, in );
        return result ;
    }

    public String process(Options opts, String xmlFile) throws Exception {
        processOpts( opts );
        return process( xmlFile );
    }

    /**
     * submit the input stream's contents to the endpoint, return the results as a string.
     * The input stream is always closed after the call, whether the request worked or not
     * @param opts options -can be null
     * @param input -input stream for request
     * @return
     * @throws Exception if the call was null
     * @throws AxisFault if the invocation returned an empty response
     */
    public String process(Options opts, InputStream input) throws Exception {
        try {
            if (call == null) {
                //validate that the call is not null
                throw new Exception(Messages.getMessage("nullCall00"));
            }

            if ( opts != null ) {
                //process options if supplied
                processOpts( opts );
            }

            call.setUseSOAPAction( true);
            call.setSOAPActionURI( "urn:AdminService");

            Vector result = null ;
            Object[] params = new Object[] { new SOAPBodyElement(input) };
            result = (Vector) call.invoke( params );

            if (result == null || result.isEmpty()) {
                throw new AxisFault(Messages.getMessage("nullResponse00"));
            }

            SOAPBodyElement body = (SOAPBodyElement) result.elementAt(0);
            return body.toString();
        } finally {
            input.close();
        }
    }
}

```

```

/**
 * Creates an instance of <code>AdminClient</code> and
 * invokes <code>process(args)</code>.
 * <p>Diagnostic output goes to <code>log.info</code>.</p>
 * @param args Commands to process
 */
public static void main (String[] args)
{
    try {
        AdminClient admin = new AdminClient();

        String result = admin.process(args);
        if (result != null) {
            System.out.println( StringUtils.unescapeNumericChar(result) );
        } else {
            System.exit(1);
        }
    } catch (AxisFault ae) {
        System.err.println(Messages.getMessage("exception00") + " " + ae.dumpToString());
        System.exit(1);
    } catch (Exception e) {
        System.err.println(Messages.getMessage("exception00") + " " + e.getMessage());
        System.exit(1);
    }
}
}

```

## 1.30 smtpclient 1.0.0

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#### L I C E N S E

SMTPclient -- simple SMTP client

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