```
<!DOCTYPE html PUBLIC "-//W3C//DTD XHTML 1.0 Transitional//EN"</p>
"http://www.w3.org/TR/xhtml1/DTD/xhtml1-transitional.dtd">
<a href="http://www.w3.org/1999/xhtml" lang="zh-CN">
<head profile="http://gmpg.org/xfn/11">
<meta http-equiv="Content-Type" content="text/html; charset=UTF-8" />
<title>/dev/null 2>&#038;1 | micmiu - +</title>
k rel="stylesheet" type="text/css" media="all" href="http://www.micmiu.com/wp-
content/themes/zbench/style.css" />
k rel="pingback" href="http://www.micmiu.com/xmlrpc.php" />
<!-- All in One SEO Pack 2.2.5.1 by Michael Torbert of Semper Fi Web Design[291,344] -->
<meta name="keywords" content="linux" />
<link rel="canonical" href="http://www.micmiu.com/os/linux/shell-dev-null/" />
<!-- /all in one seo pack -->
k rel="alternate" type="application/rss+xml" title="micmiu - + » Feed"
href="http://www.micmiu.com/feed/" />
link rel="alternate" type="application/rss+xml" title="micmiu - + » Feed"
href="http://www.micmiu.com/comments/feed/" />
link rel="alternate" type="application/rss+xml" title="micmiu - + » /dev/null 2>&1
Feed" href="http://www.micmiu.com/os/linux/shell-dev-null/feed/" />
k rel='stylesheet' id='crayon-css' href='http://www.micmiu.com/wp-content/plugins/crayon-
syntax-highlighter/css/min/crayon.min.css?ver=2.6.9' type='text/css' media='all' />
k rel='stylesheet' id='wm-css' href='http://www.micmiu.com/wp-content/plugins/wp-
microblogs/style.css?ver=4.1.12' type='text/css' media='all' />
k rel='stylesheet' id='wp-pagenavi-css' href='http://www.micmiu.com/wp-
content/themes/zbench/pagenavi-css.css?ver=2.70' type='text/css' media='all' />
<!-- This site uses the Google Analytics by Yoast plugin v5.3.2 - Universal disabled -</p>
https://yoast.com/wordpress/plugins/google-analytics/ -->
<script type="text/javascript">
var _gaq = _gaq || [];
_gaq.push(['_setAccount', 'UA-28969715-1']);
_gaq.push(['_gat._forceSSL']);
_gaq.push(['_trackPageview']);
(function () {
var ga = document.createElement('script');
ga.type = 'text/javascript';
ga.async = true;
ga.src = ('https:' == document.location.protocol ? 'https://ssl' : 'http://www') + '.google-
```

```
analytics.com/ga.js';
var s = document.getElementsByTagName('script')[0];
s.parentNode.insertBefore(ga, s);
})();
</script>
<!-- / Google Analytics by Yoast -->
<script type='text/javascript' src='http://www.micmiu.com/wp-
includes/js/jquery/jquery.js?ver=1.11.1'></script>
<script type='text/javascript' src='http://www.micmiu.com/wp-includes/js/jquery/jquery-</pre>
migrate.min.js?ver=1.2.1'></script>
<script type='text/javascript'>
/* <![CDATA[ */
var CrayonSyntaxSettings =
{"version":"2.6.9","is admin":"0","ajaxurl":"http:\/\www.micmiu.com/\wp-admin/\admin-
ajax.php","prefix":"crayon-","setting":"crayon-setting","selected":"crayon-setting-
selected", "changed": "crayon-setting-changed", "special": "crayon-setting-
special", "orig value": "data-orig-value", "debug": ""};
var CrayonSyntaxStrings = {"copy":"\u4f7f\u7528 %s \u590d\u5236\uff0c\u4f7f\u7528 %s
\u7c98\u8d34\u3002","minimize":"\u70b9\u51fb\u5c55\u5f00\u4ee3\u7801"};
/* ]]> */
</script>
<script type='text/javascript' src='http://www.micmiu.com/wp-content/plugins/crayon-syntax-</pre>
highlighter/js/min/crayon.min.js?ver=2.6.9'></script>
k rel="EditURI" type="application/rsd+xml" title="RSD"
href="http://www.micmiu.com/xmlrpc.php?rsd" />
k rel="wlwmanifest" type="application/wlwmanifest+xml" href="http://www.micmiu.com/wp-
includes/wlwmanifest.xml" />
k rel='prev' title='MavenwebEclipse' href='http://www.micmiu.com/software/build/maven-web-
eclipse-deploy/' />
k rel='next' title='Java ' href='http://www.micmiu.com/lang/java/java-check-chinese/' />
<meta name="generator" content="WordPress 4.1.12" />
k rel='shortlink' href='http://www.micmiu.com/?p=814' />
k rel="stylesheet" type="text/css" media="all" href="http://www.micmiu.com/wp-
content/plugins/sina-weibo-plugin-for-wordpress/weibo.css" />
<meta name="google-site-verification"
content="dJsm4LD88kwrheLfO84DHoepKJEWvXhvc8Q6MreJUtU" /><style
type="text/css">.recentcomments a{display:inline !important;padding:0 !important;margin:0
!important;}</style>
<style type="text/css">.broken_link, a.broken_link {
text-decoration: line-through;
```

```
}</style></head>
<body class="single single-post postid-814 single-format-standard">
<div id="nav">
<div id="menus">
<a href="http://www.micmiu.com/"></a>
class="menu-item menu-item-type-custom menu-item-object-custom menu-item-has-children
menu-item-700"><a href="http://www.micmiu.com/author/michael/">Michael</a>
ul class="sub-menu">
id="menu-item-694" class="menu-item menu-item-type-taxonomy menu-item-object-category
menu-item-694"><a href="http://www.micmiu.com/category/j2ee/">J2EE</a>
id="menu-item-697" class="menu-item menu-item-type-taxonomy menu-item-object-category
menu-item-697"><a href="http://www.micmiu.com/category/soa/">SOA</a>
id="menu-item-696" class="menu-item menu-item-type-taxonomy menu-item-object-category
menu-item-696"><a href="http://www.micmiu.com/category/opensource/">OpenSource</a>
id="menu-item-695" class="menu-item menu-item-type-taxonomy menu-item-object-category
menu-item-695"><a href="http://www.micmiu.com/category/nosql/">NoSQL</a>
id="menu-item-699" class="menu-item menu-item-type-taxonomy menu-item-object-category
menu-item-699"><a href="http://www.micmiu.com/category/architecture/"></a>
id="menu-item-698" class="menu-item menu-item-type-taxonomy menu-item-object-category
menu-item-698"><a href="http://www.micmiu.com/category/enterprise-app/"></a>
id="menu-item-337" class="menu-item menu-item-type-taxonomy menu-item-object-category
menu-item-has-children menu-item-337"><a href="http://www.micmiu.com/category/lang/"></a>
id="menu-item-355" class="menu-item menu-item-type-taxonomy menu-item-object-category
menu-item-355"><a href="http://www.micmiu.com/category/lang/java/">Java</a>
id="menu-item-356" class="menu-item menu-item-type-taxonomy menu-item-object-category
menu-item-356"><a href="http://www.micmiu.com/category/lang/javascript/">javascript</a>
id="menu-item-354" class="menu-item menu-item-type-taxonomy menu-item-object-category
menu-item-has-children menu-item-354"><a href="http://www.micmiu.com/category/hazel-wu/">
Miumiu</a>
ul class="sub-menu">
id="menu-item-362" class="menu-item menu-item-type-taxonomy menu-item-object-category
menu-item-362"><a href="http://www.micmiu.com/category/hazel-wu/life/"></a>
id="menu-item-358" class="menu-item menu-item-type-taxonomy menu-item-object-category
menu-item-358"><a href="http://www.micmiu.com/category/hazel-wu/cookroom/"></a>
id="menu-item-359" class="menu-item menu-item-type-taxonomy menu-item-object-category
```

```
menu-item-359"><a href="http://www.micmiu.com/category/hazel-wu/feeling/"></a>
id="menu-item-341" class="menu-item menu-item-type-post type menu-item-object-page
menu-item-341"><a href="http://www.micmiu.com/about/"></a>
id="menu-item-340" class="menu-item menu-item-type-post type menu-item-object-page
menu-item-340"><a href="http://www.micmiu.com/message-board/"></a>
</div>
<div id="search">
<form id="searchform" method="get" action="http://www.micmiu.com/">
<input type="text" value="" onfocus="if (this.value == ") {this.value = ";}" onblur="if (this.value == ")</pre>
{this.value = ";}" size="35" maxlength="50" name="s" id="s" />
<input type="submit" id="searchsubmit" value="" />
</form></div>
</div>
<div id="wrapper">
<div id="header"><h1><a href="http://www.micmiu.com/">micmiu &#8211; +</a></h1>
<h2></h2>
<div class="clear"></div>
</div>
<div id="content">
<div class="post-814 post type-post status-publish format-standard hentry category-linux tag-linux</p>
post-single" id="post-814"><!-- post div -->
<h2 class="title">/dev/null 2>&#038;1 </h2>
<div class="post-info-top">
<span class="post-info-date">
: <a href="http://www.micmiu.com/author/michael/" title=" Michael " rel="author">Michael</a>
:2012 10 18 </span>
<span class="addcomment"><a href="#respond" rel="nofollow" title=""></a> (0)</span>
<span class="gotocomments"><a href="#comments" rel="nofollow" title=""></a></span>
</div>
<div class="clear"></div>
<div class="entry">
shell <span style="color: #ff0000;">/dev/null 2&gt;&amp;1</span> /dev/null ,
<span style="color: #0000ff;">[]</span>
<span style="color: #ff0000;"> &gt;/dev/null 2&gt;&amp;1</span> 
<0|>
<span style="line-height: 22px;"><span style="color: #ff0000;">&gt;</span> echo
"micmiu.com" > /home/michaeltest.txt<br />
</span>
<span style="line-height: 22px;"><span style="color: #ff0000;">/dev/null</span> <br/> <br/>/>
```

```
</span>
<span style="line-height: 22px;"><span style="color: #ff0000;">2&gt;</span> stderr<br/>>
</span>
<span style="line-height: 22px;"><span style="color: #ff0000;">&amp;</span> 2&gt;&amp;12
1<br />
</span>
<span style="line-height: 22px;"><span style="color: #ff0000;">1</span> stdout1
">/dev/null" "1>/dev/null"<br/>
</span>
">/dev/null 2>&1″ "1>/dev/null 2>&1″
<span style="color: #0000ff;">[]</span>
<span style="color: #ff0000;">1&gt;/dev/null</span> <br />
<span style="color: #ff0000;">2&gt;&amp;1</span> 
@<a href="http://www.micmiu.com/">Michael Sun</a>.
<div style="background:#F4F5F7;border:1px solid #CCC;font-size: 11px; font-style: italic">
<strong></strong> <a href="http://www.micmiu.com/">micmiu &#8211; +</a>[ <a
href="http://www.micmiu.com/">http://www.micmiu.com/</a> ]
<strong>:</strong> <a href="http://www.micmiu.com/os/linux/shell-dev-
null/">http://www.micmiu.com/os/linux/shell-dev-null/</a>
</div>
<div style="clear:both; margin-top:5px; margin-bottom:5px;"></div><div style="float:left"><!--</pre>
JiaThis Button BEGIN -->
<div id="jiathis_style_32x32">
<a class="jiathis_button_qzone"></a>
<a class="jiathis button tsina"></a>
<a class="jiathis_button_tqq"></a>
<a class="jiathis_button_renren"></a>
<a class="jiathis button kaixin001"></a>
<a href="http://www.jiathis.com/share/" onclick="_gaq.push(['_trackEvent', 'outbound-article',
'http://www.jiathis.com/share/', "]);" class="jiathis jiathis_txt jtico jtico_jiathis" target="_blank"></a>
<a class="jiathis counter style"></a>
</div>
<script type="text/javascript" src="http://v2.jiathis.com/code/jia.js" charset="utf-8"></script>
<!-- JiaThis Button END --></div><div style="clear:both; margin-top:5px; margin-
bottom:5px;"></div><!-- END entry -->
<div class="add-info">
</div>
<div class="post-info-bottom">
<span class="post-info-category"><a href="http://www.micmiu.com/category/os/linux/"</pre>
rel="category tag">linux</a></span><span class="post-info-tags"><a
```

```
href="http://www.micmiu.com/tag/linux/" rel="tag">linux</a></span>
</div>
<div id="nav-below">
<div class="nav-previous"><a href="http://www.micmiu.com/software/build/maven-web-eclipse-</pre>
deploy/" rel="prev"><span class="meta-nav">&larr;</span> MavenwebEclipse</a></div>
<div class="nav-next"><a href="http://www.micmiu.com/lang/java/java-check-chinese/"</pre>
rel="next">Java <span class="meta-nav">&rarr;</span></a></div>
</div><!-- #nav-below -->
</div><!-- END post -->
<!-- You can start editing here. -->
<div id="comments-div"><span id="comments-addcomment"><a href="#respond" rel="nofollow"
title=""></a></span><h2 id="comments">0 </h2></div>
<script type="text/javascript">
/* <![CDATA[ */
function grin(tag) {
var myField;
tag = '' + tag + '';
if (document.getElementById('comment') && document.getElementById('comment').type ==
'textarea') {
myField = document.getElementById('comment');
} else {
return false;
if (document.selection) {
myField.focus();
sel = document.selection.createRange();
sel.text = tag;
myField.focus();
else if (myField.selectionStart || myField.selectionStart == '0') {
var startPos = myField.selectionStart;
var endPos = myField.selectionEnd;
var cursorPos = endPos;
myField.value = myField.value.substring(0, startPos)
 + tag
 + myField.value.substring(endPos, myField.value.length);
cursorPos += tag.length;
myField.focus();
myField.selectionStart = cursorPos;
```

```
myField.selectionEnd = cursorPos;
}
else {
myField.value += tag;
myField.focus();
}
/* ]]> */
</script>
<div id="respond" class="comment-respond">
<h3 id="reply-title" class="comment-reply-title"> <small><a rel="nofollow" id="cancel-comment-
reply-link" href="/os/linux/shell-dev-null/#respond" style="display:none;"><small>
</small></a></small></h3>
<form action="http://www.micmiu.com/wp-comments-post.php" method="post" id="commentform"</pre>
class="comment-form">
<input id="author" name="author" type="text" value="" size="30"
/> <label for="author"><small></small></label>
<input id="email" name="email" type="text" value="" size="30" />
<label for="email"></label>
<input id="url" name="url" type="text" value="" size="30" /> <label</pre>
for="url"></label>
<a href="javascript:grin(':?:')"><img src="http://www.micmiu.com/wp-
includes/images/smilies/icon_question.gif" alt="" /></a>
<a href="javascript:grin(':razz:')"><img src="http://www.micmiu.com/wp-
includes/images/smilies/icon razz.gif" alt="" /></a>
<a href="javascript:grin(':sad:')"><img src="http://www.micmiu.com/wp-
includes/images/smilies/icon_sad.gif" alt="" /></a>
<a href="javascript:grin(':evil:')"><img src="http://www.micmiu.com/wp-
includes/images/smilies/icon_evil.gif" alt="" /></a>
<a href="javascript:grin(':!:')"><img src="http://www.micmiu.com/wp-
includes/images/smilies/icon_exclaim.gif" alt="" /></a>
<a href="javascript:grin(':smile:')"><img src="http://www.micmiu.com/wp-
includes/images/smilies/icon_smile.gif" alt="" /></a>
<a href="javascript:grin(':oops:')"><img src="http://www.micmiu.com/wp-
includes/images/smilies/icon_redface.gif" alt="" /></a>
<a href="javascript:grin(':grin:')"><img src="http://www.micmiu.com/wp-
includes/images/smilies/icon_biggrin.gif" alt="" /></a>
<a href="javascript:grin(':eek:')"><img src="http://www.micmiu.com/wp-
includes/images/smilies/icon_surprised.gif" alt="" /></a>
<a href="javascript:grin(':shock:')"><img src="http://www.micmiu.com/wp-
```

```
includes/images/smilies/icon eek.gif" alt="" /></a>
<a href="javascript:grin(':???:')"><img src="http://www.micmiu.com/wp-
includes/images/smilies/icon confused.gif" alt="" /></a>
<a href="javascript:grin(':cool:')"><img src="http://www.micmiu.com/wp-
includes/images/smilies/icon_cool.gif" alt="" /></a>
<a href="javascript:grin(':lol:')"><img src="http://www.micmiu.com/wp-
includes/images/smilies/icon_lol.gif" alt="" /></a>
<a href="javascript:grin(':mad:')"><img src="http://www.micmiu.com/wp-
includes/images/smilies/icon mad.gif" alt="" /></a>
<a href="javascript:grin(':twisted:')"><img src="http://www.micmiu.com/wp-
includes/images/smilies/icon twisted.gif" alt="" /></a>
<a href="javascript:grin(':roll:')"><img src="http://www.micmiu.com/wp-
includes/images/smilies/icon_rolleyes.gif" alt="" /></a>
<a href="javascript:grin(':wink:')"><img src="http://www.micmiu.com/wp-
includes/images/smilies/icon wink.gif" alt="" /></a>
<a href="javascript:grin(':idea:')"><img src="http://www.micmiu.com/wp-
includes/images/smilies/icon_idea.gif" alt="" /></a>
<a href="javascript:grin(':arrow:')"><img src="http://www.micmiu.com/wp-
includes/images/smilies/icon_arrow.gif" alt="" /></a>
<a href="javascript:grin(':neutral:')"><img src="http://www.micmiu.com/wp-
includes/images/smilies/icon_neutral.gif" alt="" /></a>
<a href="javascript:grin(':cry:')"><img src="http://www.micmiu.com/wp-
includes/images/smilies/icon cry.gif" alt="" /></a>
<a href="javascript:grin(':mrgreen:')"><img src="http://www.micmiu.com/wp-
includes/images/smilies/icon_mrgreen.gif" alt="" /></a>
<br/><br/>class="comment-form-comment"><textarea aria-required="true" rows="8" cols="45"</pre>
name="comment" id="comment"
onkeydown="if(event.ctrlKey){if(event.keyCode==13){document.getElementById('submit').click();re
turn false}};"></textarea> - <abbr title="HyperText Markup"> - <abbr title="Hype
Language">HTML</abbr> tags and attributes:<br /> <code>&lt;a href=&quot;&quot;
title=""> <abbr title=&quot;&guot;&gt; &lt;acronym title=&quot;&guot;&gt; &lt;b&gt;
<blockquote cite=&quot;&quot;&qt; &lt;cite&qt; &lt;code class=&quot;&quot; title=&quot;&quot;
data-url=""> <del datetime=&quot;&quot;&gt; &lt;em&gt; &lt;i&gt; &lt;q
cite=""> <strike&gt; &lt;strong&gt; &lt;pre class=&quot;&quot; title=&quot;&quot;
data-url=""> <span class=&quot;&quot; title=&quot;&quot; data-
url=""> </code>
<input name="submit" type="submit" id="submit" class="submit" value="" />
<input type='hidden' name='comment_post_ID' value='814' id='comment_post_ID' />
<input type='hidden' name='comment_parent' id='comment_parent' value='0' />
<input type="hidden" id="akismet_comment_nonce"
```

```
name="akismet comment nonce" value="c83b686e78" /><input
type="hidden" id="ak_js" name="ak_js" value="221"/></form>
</div><!-- #respond -->
</div><!--content-->
<div id="sidebar-border">
<div id="rss border">
<div class="rss border">
<div id="rss wrap">
<div class="rss wrap">
<a class="rss " href="http://www.micmiu.com/feed/" rel="bookmark" title="RSS ">RSS </a>
<a class="twitter" href="http://twitter.com/suncto" rel="author" title="Follow me on twitter.">Follow
me on twitter.</a>
<a class="facebook" href="http://facebook.com/suncto" rel="author"
title="Facebook">Facebook</a>
<a class="googleplus" href="https://plus.google.com/105200330225272097125" rel="me"
title="Google+</a>
</div>
</div>
</div>
</div>
<div id="sidebar">
<div class="widget"><iframe width="100%" height="400" class="share_self" frameborder="0"</pre>
scrolling="no"
src="http://widget.weibo.com/weiboshow/index.php?language=&width=0&height=400&fansRow=2
&ptype=1&speed=0&skin=2&isTitle=1&noborder=1&isWeibo=1&isFans=0&uid=1174324794&verif
ier=8df3c22e&dpc=1"></iframe>
    </div>
<div id="recent-posts-4" class="widget widget recent entries"><h3 class="widgettitle"></h3>
<a href="http://www.micmiu.com/exception/jee-hadoop-nosuchmethod-error-
getproblems/">java.lang.NoSuchMethodError:
org.eclipse.jdt.internal.compiler.CompilationResult.getProblems()</a>
<a href="http://www.micmiu.com/bigdata/hadoop/hadoop-map-inputsplit-filepath/">HadoopMap
split</a>
<
<a href="http://www.micmiu.com/bigdata/hadoop/hadoop-many-disk-config/">hadoop</a>
```

```
<a href="http://www.micmiu.com/bigdata/hadoop/hadoop-hbase-pid-dir-config/">HadoopPID</a>
<a href="http://www.micmiu.com/bigdata/hbase/hbase-snappy-install-config/">HBasesnappy</a>
<a href="http://www.micmiu.com/bigdata/hadoop/hadoop-snappy-install-config/">Hadoopsnappy
<
<a href="http://www.micmiu.com/hazel-wu/life/happy-new-year/">Happy New Year!</a>
<
<a href="http://www.micmiu.com/bigdata/hbase/hbase-setup-on-hadoop2-nn-ha-
zookeeper/">HBase+Hadoop2 NN HA+Zookeeper</a>
<a href="http://www.micmiu.com/bigdata/hadoop/hadoop2-cluster-ha-setup/">Hadoop2NNRMHA
</a>
<
<a href="http://www.micmiu.com/ops/ansible/ansible-requires-a-json-module/">ansible requires a
ison module, none found</a>
</div><div id="views-4" class="widget widget_views"><h3 class="widgettitle"></h3>
<a href="http://www.micmiu.com/software/common/intellij-idea-create-maven-web/" title="
IntelliJ IDEA MavenWeb">IntelliJ IDEA MavenWeb</a> - 79,030 views
href="http://www.micmiu.com/soa/rpc/thrift-sample/" title="ThriftJava">ThriftJava</a> - 63,366
views<a href="http://www.micmiu.com/enterprise-app/sso/sso-cas-sample/" title="SSO" title="title="SSO" title="title="title="title="title="title="title="title="title="title="title="title="title="title="title="title="title="title="title="title="title="title="title="title="title="title="title="title="title="title="title="title="title="title="title="title="title="title="title="title="title="title="title="title="title="title="title="title="title="title="title="title="title="title="title="title="title="title="title="title="title="title="title="title="title="title="title="title="title="title="title="title="title="title="title="title="title="title="title="title="title="title="title="title="title="title="title="title="title="title="title="title="title="title="title="title="title="title="title="title="title="title="title="title="title="title="title="title="title="title="title="title="title="title="title="title="title="title="title="title="title="title="title="title="title="title="title="title="title="title="title="title="title="title="title="title="title="title="title="title="title="title="title="title="title="title="title="title="title="title="title="title="title="title="title="title="title="title="title="title="title="title="title="title="title="title="title="title="title="title="title="title="title="title="title="title="title="title="title="title="title="title="title="title="title="title="title="title="title="title="title="title="title="title="title="title="title="title="title="title="title="title="title="title="title="title="title="title="title="tit
CAS">SSOCAS</a> - 40,004 viewsli><a href="http://www.micmiu.com/enterprise-
app/sso/openIdap-windows-config/" title="openLDAPwindows">openLDAPwindows</a> - 31,934
views<a href="http://www.micmiu.com/software/build/maven-web-eclipse-deploy/"
title="MavenwebEclipse">MavenwebEclipse</a> - 30,585 views<a
href="http://www.micmiu.com/lang/java/keytool-start-guide/" title="java keytool">java keytool</a> -
29,446 viewsli><a href="http://www.micmiu.com/lang/java/java-md5-sha1/" title="javaMD5" title="javaMD
SHA1">javaMD5SHA1</a> - 29,235 views
href="http://www.micmiu.com/software/build/eclipse-maven-web-lib/" title="Eclipse+Mavenweb"
Maven lib">Eclipse+MavenwebMaven lib</a> - 26,255 viewsli><a
href="http://www.micmiu.com/lang/java/set-javahome-on-mac-os-x/" title="$JAVA_HOMEMac OS
```

```
X">$JAVA HOMEMac OS X</a> - 18,976 views
href="http://www.micmiu.com/opensource/openfire/openfire-src-config/" title="Openfire">Openfire
</a> - 18,430 views
</div><div id="mycategoryorder-3" class="widget widget_mycategoryorder"><h3
class="widgettitle"></h3>
ul>
<a href="http://www.micmiu.com/category/j2ee/" title="J2EE"</pre>
">J2EE</a> (42)
ul class='children'>
cli class="cat-item cat-item-19"><a href="http://www.micmiu.com/category/j2ee/hibernate/"</p>
>Hibernate</a> (12)
<a href="http://www.micmiu.com/category/j2ee/struts/"</pre>
title="Struts1.x 2.x">Struts</a> (5)
<a href="http://www.micmiu.com/category/j2ee/spring/"</pre>
title="Spring framework">Spring</a> (11)
<a href="http://www.micmiu.com/category/j2ee/jdbc-tech/"</pre>
title="JDBC">JDBC</a> (6)
<a href="http://www.micmiu.com/category/j2ee/jta/"</pre>
title="JTA">JTA</a> (3)
class="cat-item cat-item-314"><a href="http://www.micmiu.com/category/j2ee/ejb/"</p>
title="EJB">EJB</a> (4)
<a href="http://www.micmiu.com/category/j2ee/framework/"</pre>
>framework</a> (1)
<a href="http://www.micmiu.com/category/bigdata/" title=""></a>
(36)
ul class='children'>
<a href="http://www.micmiu.com/category/bigdata/hadoop/"</pre>
title="Hadoop">Hadoop</a> (17)
<a href="http://www.micmiu.com/category/bigdata/hive/"</pre>
title="Hive">Hive</a> (8)
```

```
<a href="http://www.micmiu.com/category/bigdata/hbase/"</pre>
title="HBase">HBase</a> (7)
<a href="http://www.micmiu.com/category/bigdata/spark/"</pre>
title="spark">Spark</a> (2)
<a href="http://www.micmiu.com/category/bigdata/sqoop/"</pre>
>Sqoop</a> (2)
<a href="http://www.micmiu.com/category/ops/" title=""></a> (1)
ul class='children'>
<a href="http://www.micmiu.com/category/ops/ansible/"</pre>
>ansible</a> (1)
<a href="http://www.micmiu.com/category/soa/" title="SOA"</pre>
WebserviceRPCRMIREST">SOA</a> (14)
ul class='children'>
<a href="http://www.micmiu.com/category/soa/webservice/"</pre>
title="webservice">webservice</a> (12)
<a href="http://www.micmiu.com/category/soa/rpc/" title="remote"</pre>
procedure call">RPC</a> (2)
<a href="http://www.micmiu.com/category/opensource/" title="</pre>
">OpenSource</a> (33)
ul class='children'>
<a href="http://www.micmiu.com/category/opensource/ofc/"</pre>
title="openflashchart">openflashchart</a> (2)
class="cat-item cat-item-274"><a href="http://www.micmiu.com/category/opensource/expdoc/"</p>
title="PDFWordExcel"></a> (5)
class="cat-item cat-item-288"><a href="http://www.micmiu.com/category/opensource/openfire/"</p>
title="Openfire">Openfire</a> (4)
```

```
class="cat-item cat-item-291"><a href="http://www.micmiu.com/category/opensource/security/"</p>
title="">Security</a> (1)
class="cat-item cat-item-318"><a href="http://www.micmiu.com/category/opensource/corba/"</p>
title="CORBAIDLOpenORBJacORB">CORBA</a> (4)
<a href="http://www.micmiu.com/category/opensource/nutch/"</pre>
>Nutch</a> (6)
<a href="http://www.micmiu.com/category/architecture/" title="">
</a> (1)
ul class='children'>
class="cat-item cat-item-215"><a href="http://www.micmiu.com/category/architecture/cache/"</p>
title=""></a> (1)
<a href="http://www.micmiu.com/category/enterprise-app/" title="</pre>
"></a> (24)
ul class='children'>
<a href="http://www.micmiu.com/category/enterprise-app/snmp/"</pre>
title="SNMP">SNMP</a> (8)
cli class="cat-item cat-item-225"><a href="http://www.micmiu.com/category/enterprise-app/sso/"</pre>
>SSO</a> (4)
class="cat-item cat-item-254"><a href="http://www.micmiu.com/category/enterprise-"><a href="http://www.micmiu.com/category/enterpri
app/server/" title="Apache Httpnginxtomcat"></a> (10)
<a href="http://www.micmiu.com/category/lang/" ></a> (37)
ul class='children'>
<a href="http://www.micmiu.com/category/lang/java/" title="java"</pre>
">Java</a> (25)
<a href="http://www.micmiu.com/category/lang/javascript/"</pre>
title="javascript">javascript</a> (5)
```

```
<a href="http://www.micmiu.com/category/lang/groovy/"</pre>
title="Groovy">Groovy</a> (4)
<a href="http://www.micmiu.com/category/lang/nodejs/"</pre>
title="node;s">node;s</a> (1)
<a href="http://www.micmiu.com/category/lang/go/" >Go</a> (2)
<a href="http://www.micmiu.com/category/nosgl/"</pre>
title="nosql">NoSQL</a> (12)
ul class='children'>
<a href="http://www.micmiu.com/category/nosql/berkeley/"</pre>
title="Berkeley DB">Berkeley</a> (6)
<a href="http://www.micmiu.com/category/db/" title=""></a> (10)
ul class='children'>
<a href="http://www.micmiu.com/category/db/oracle-db/"</pre>
title="Oracle">Oracle</a> (7)
<a href="http://www.micmiu.com/category/db/mysql/"</pre>
title="mysql">mysql</a> (2)
class="cat-item cat-item-44"><a href="http://www.micmiu.com/category/android/"</pre>
title="Android">Android</a> (4)
<a href="http://www.micmiu.com/category/web/" title="web">web
UI</a> (1)
<a href="http://www.micmiu.com/category/software/" title=""></a>
(30)
ul class='children'>
class="cat-item cat-item-325"><a href="http://www.micmiu.com/category/software/common/"</p>
title=""></a> (13)
```

```
<a href="http://www.micmiu.com/category/software/build/" title="</pre>
"></a> (15)
<a href="http://www.micmiu.com/category/software/test/" title="">
</a> (2)
<a href="http://www.micmiu.com/category/os/" title=""></a> (26)
ul class='children'>
class="cat-item cat-item-17"><a href="http://www.micmiu.com/category/os/linux/"</pre>
title="linux">linux</a> (19)
<a href="http://www.micmiu.com/category/os/windows/"</pre>
title="windows">windows</a> (2)
<a href="http://www.micmiu.com/category/os/mac/" title="Mac</pre>
OSX">Mac</a> (5)
<a href="http://www.micmiu.com/category/hazel-wu/" title=""></a>
(9)
ul class='children'>
<a href="http://www.micmiu.com/category/hazel-wu/feeling/"</pre>
title=""></a> (3)
class="cat-item cat-item-11"><a href="http://www.micmiu.com/category/hazel-wu/life/" title="">
</a> (6)
<a href="http://www.micmiu.com/category/exception/"</pre>
title="Exception"></a> (23)
<a href="http://www.micmiu.com/category/techother/" title=""></a>
(2)
```

</div><div id="archives-5" class="widget widget_archive"><h3 class="widgettitle"></h3><select name="archive-dropdown" onchange='document.location.href=this.options[this.selectedIndex].value;'> <option value=""></option>

```
<option value='http://www.micmiu.com/2015/08/'> 2015 &nbsp;(1)</option>
<option value='http://www.micmiu.com/2015/03/'> 2015 &nbsp;(5)</option>
<option value='http://www.micmiu.com/2015/02/'> 2015 &nbsp;(3)</option>
<option value='http://www.micmiu.com/2015/01/'> 2015 &nbsp;(12)</option>
<option value='http://www.micmiu.com/2014/12/'> 2014 &nbsp;(4)
<option value='http://www.micmiu.com/2014/11/'> 2014 &nbsp;(3)
<option value='http://www.micmiu.com/2014/07/'> 2014 &nbsp;(1)
<option value='http://www.micmiu.com/2014/05/'> 2014 &nbsp;(1)</option>
<option value='http://www.micmiu.com/2014/04/'> 2014 &nbsp;(12)</option>
<option value='http://www.micmiu.com/2014/03/'> 2014 &nbsp;(4)
<option value='http://www.micmiu.com/2014/02/'> 2014 &nbsp;(6)
<option value='http://www.micmiu.com/2014/01/'> 2014 &nbsp;(8)</option>
<option value='http://www.micmiu.com/2013/12/'> 2013 &nbsp;(1)</option>
<option value='http://www.micmiu.com/2013/10/'> 2013 &nbsp;(9)
<option value='http://www.micmiu.com/2013/09/'> 2013 &nbsp;(7)</option>
<option value='http://www.micmiu.com/2013/08/'> 2013 &nbsp;(8)</option>
<option value='http://www.micmiu.com/2013/06/'> 2013 &nbsp;(4)
<option value='http://www.micmiu.com/2013/05/'> 2013 &nbsp;(4)</option>
<option value='http://www.micmiu.com/2013/04/'> 2013 &nbsp;(3)</option>
<option value='http://www.micmiu.com/2013/03/'> 2013 &nbsp;(10)
<option value='http://www.micmiu.com/2013/02/'> 2013 &nbsp;(1)</option>
<option value='http://www.micmiu.com/2013/01/'> 2013 &nbsp;(2)</option>
<option value='http://www.micmiu.com/2012/12/'> 2012 &nbsp;(1)</option>
<option value='http://www.micmiu.com/2012/11/'> 2012 &nbsp;(7)</option>
<option value='http://www.micmiu.com/2012/10/'> 2012 &nbsp;(2)</option>
<option value='http://www.micmiu.com/2012/09/'> 2012 &nbsp;(4)</option>
<option value='http://www.micmiu.com/2012/08/'> 2012 &nbsp;(13)</option>
<option value='http://www.micmiu.com/2012/07/'> 2012 &nbsp;(14)
<option value='http://www.micmiu.com/2012/06/'> 2012 &nbsp;(12)</option>
<option value='http://www.micmiu.com/2012/05/'> 2012 &nbsp:(15)</option>
<option value='http://www.micmiu.com/2012/04/'> 2012 &nbsp;(20)</option>
<option value='http://www.micmiu.com/2012/03/'> 2012 &nbsp;(22)</option>
<option value='http://www.micmiu.com/2012/02/'> 2012 &nbsp;(86)/option>
</select>
</div>
    <div id="wp-cumulus" class="widget wp_cumulus_widget">
```

<!-- SWFObject embed by Geoff Stearns geoff@deconcept.com http://blog.deconcept.com/swfobject/ --><script type="text/javascript" src="http://www.micmiu.com/wp-content/plugins/wp-cumulus/swfobject.js"></script><div id="wpcumuluswidgetcontent7652942">Android apache ATOMIKOS Berkeley CORBA eclipse Groovy HA Hadoop HBase hibernate Hive iText java iavascript jdbc jdk

<a href='http://www.micmiu.com/tag/je/' class='tag-link-268' title='5' style='font-size:

10.5979381443pt;'>JE

```
<a href='http://www.micmiu.com/tag/jrobin/' class='tag-link-95' title='3' style='font-size:
8pt;'>JRobin</a>
<a href='http://www.micmiu.com/tag/jta/' class='tag-link-169' title='4' style='font-size:
9.44329896907pt;'>JTA</a>
<a href='http://www.micmiu.com/tag/lb/' class='tag-link-175' title='3' style='font-size: 8pt;'>LB</a>
<a href='http://www.micmiu.com/tag/linux/' class='tag-link-17' title='7' style='font-size:
12.3298969072pt;'>linux</a>
<a href='http://www.micmiu.com/tag/mac-2/' class='tag-link-296' title='5' style='font-size:
10.5979381443pt;'>mac</a>
<a href='http://www.micmiu.com/tag/maven/' class='tag-link-204' title='13' style='font-size:
15.9381443299pt;'>Maven</a>
<a href='http://www.micmiu.com/tag/mysql/' class='tag-link-108' title='4' style='font-size:
9.44329896907pt;'>mysql</a>
<a href='http://www.micmiu.com/tag/nginx/' class='tag-link-185' title='3' style='font-size:
8pt;'>nginx</a>
<a href='http://www.micmiu.com/tag/nutch-2/' class='tag-link-349' title='5' style='font-size:
10.5979381443pt;'>nutch</a>
<a href='http://www.micmiu.com/tag/openfire-2/' class='tag-link-289' title='4' style='font-size:
9.44329896907pt;'>openfire</a>
<a href='http://www.micmiu.com/tag/oracle/' class='tag-link-16' title='6' style='font-size:
11.6082474227pt;'>oracle</a>
<a href='http://www.micmiu.com/tag/osx/' class='tag-link-297' title='4' style='font-size:
9.44329896907pt;'>osx</a>
<a href='http://www.micmiu.com/tag/pdf/' class='tag-link-276' title='4' style='font-size:
9.44329896907pt;'>PDF</a>
<a href='http://www.micmiu.com/tag/snmp/' class='tag-link-94' title='6' style='font-size:
11.6082474227pt;'>SNMP</a>
<a href='http://www.micmiu.com/tag/snmp4j/' class='tag-link-136' title='5' style='font-size:
10.5979381443pt;'>snmp4j</a>
<a href='http://www.micmiu.com/tag/spring-2/' class='tag-link-28' title='9' style='font-size:
13.7731958763pt;'>spring</a>
<a href='http://www.micmiu.com/tag/springmvc/' class='tag-link-282' title='5' style='font-size:
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<a href='http://www.micmiu.com/tag/struts/' class='tag-link-21' title='3' style='font-size:
8pt:'>Struts</a>
<a href='http://www.micmiu.com/tag/struts2/' class='tag-link-270' title='4' style='font-size:
9.44329896907pt;'>Struts2</a>
<a href='http://www.micmiu.com/tag/svn/' class='tag-link-104' title='4' style='font-size:
9.44329896907pt;'>svn</a>
<a href='http://www.micmiu.com/tag/tokyotyrant/' class='tag-link-111' title='3' style='font-size:
```

8pt;'>tokyotyrant

```
<a href='http://www.micmiu.com/tag/tomcat/' class='tag-link-120' title='3' style='font-size:
8pt;'>tomcat</a>
<a href='http://www.micmiu.com/tag/ttserver/' class='tag-link-110' title='4' style='font-size:
9.44329896907pt;'>ttserver</a>
<a href='http://www.micmiu.com/tag/ubuntu/' class='tag-link-125' title='7' style='font-size:
12.3298969072pt;'>ubuntu</a>
<a href='http://www.micmiu.com/tag/webservice/' class='tag-link-37' title='10' style='font-size:
14.3505154639pt;'>webservice</a>
<a href='http://www.micmiu.com/tag/xfire/' class='tag-link-38' title='8' style='font-size:
13.0515463918pt;'>xfire</a>
<a href='http://www.micmiu.com/tag/xml/' class='tag-link-200' title='3' style='font-size:
8pt;'>XML</a>WP Cumulus Flash tag cloud by <a href="http://www.roytanck.com"
rel="nofollow">Roy Tanck</a> requires <a
href="http://www.macromedia.com/go/getflashplayer">Flash Player</a> 9 or
better.</div><script type="text/javascript">var widget so3996248 = new
SWFObject("http://www.micmiu.com/wp-content/plugins/wp-cumulus/tagcloud.swf?r=8395561",
"tagcloudflash", "300", "300", "9", "#ffffff");widget_so3996248.addParam("wmode",
"transparent"); widget so 3996248.add Param ("allow Script Access",
"always");widget_so3996248.addVariable("tcolor",
"0xFF6601"); widget so3996248.addVariable ("tcolor2",
"0x0299FF");widget_so3996248.addVariable("hicolor",
"0x81CCFF"); widget_so3996248.addVariable("tspeed",
"100"); widget so 3996248. add Variable ("distr", "true"); widget so 3996248. add Variable ("mode",
"tags");widget_so3996248.addVariable("tagcloud",
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27+class%3D%27tag-link-
44%27+title%3D%274%E4%B8%AA%E8%AF%9D%E9%A2%98%27+style%3D%27font-
size%3A+9.44329896907pt%3B%27%3EAndroid%3C%2Fa%3E%0A%3Ca+href%3D%27http%3
A%2F%2Fwww.micmiu.com%2Ftag%2Fapache%2F%27+class%3D%27tag-link-
117%27+title%3D%277%E4%B8%AA%E8%AF%9D%E9%A2%98%27+style%3D%27font-
size%3A+12.3298969072pt%3B%27%3Eapache%3C%2Fa%3E%0A%3Ca+href%3D%27http%3
A%2F%2Fwww.micmiu.com%2Ftag%2Fatomikos%2F%27+class%3D%27tag-link-
167%27+title%3D%274%E4%B8%AA%E8%AF%9D%E9%A2%98%27+style%3D%27font-
size%3A+9.44329896907pt%3B%27%3EATOMIKOS%3C%2Fa%3E%0A%3Ca+href%3D%27htt
p%3A%2F%2Fwww.micmiu.com%2Ftag%2Fberkeley%2F%27+class%3D%27tag-link-
267%27+title%3D%276%E4%B8%AA%E8%AF%9D%E9%A2%98%27+style%3D%27font-
size%3A+11.6082474227pt%3B%27%3EBerkeley%3C%2Fa%3E%0A%3Ca+href%3D%27http%
3A%2F%2Fwww.micmiu.com%2Ftag%2Fcorba%2F%27+class%3D%27tag-link-
318%27+title%3D%274%E4%B8%AA%E8%AF%9D%E9%A2%98%27+style%3D%27font-
size%3A+9.44329896907pt%3B%27%3ECORBA%3C%2Fa%3E%0A%3Ca+href%3D%27http%3
A%2F%2Fwww.micmiu.com%2Ftag%2Feclipse%2F%27+class%3D%27tag-link-
```

```
size%3A+15.3608247423pt%3B%27%3Eeclipse%3C%2Fa%3E%0A%3Ca+href%3D%27http%3A
%2F%2Fwww.micmiu.com%2Ftag%2Fgroovy%2F%27+class%3D%27tag-link-
266%27+title%3D%274%E4%B8%AA%E8%AF%9D%E9%A2%98%27+style%3D%27font-
size%3A+9.44329896907pt%3B%27%3EGroovy%3C%2Fa%3E%0A%3Ca+href%3D%27http%3
A%2F%2Fwww.micmiu.com%2Ftag%2Fha%2F%27+class%3D%27tag-link-
174%27+title%3D%273%E4%B8%AA%E8%AF%9D%E9%A2%98%27+style%3D%27font-
size%3A+8pt%3B%27%3EHA%3C%2Fa%3E%0A%3Ca+href%3D%27http%3A%2F%2Fwww.mic
miu.com%2Ftag%2Fhadoopv1%2F%27+class%3D%27tag-link-
179%27+title%3D%2718%E4%B8%AA%E8%AF%9D%E9%A2%98%27+style%3D%27font-
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A%2F%2Fwww.micmiu.com%2Ftag%2Fhbase%2F%27+class%3D%27tag-link-
330%27+title%3D%2711%E4%B8%AA%E8%AF%9D%E9%A2%98%27+style%3D%27font-
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%2F%2Fwww.micmiu.com%2Ftag%2Fhibernate-2%2F%27+class%3D%27tag-link-
24%27+title%3D%2713%E4%B8%AA%E8%AF%9D%E9%A2%98%27+style%3D%27font-
size%3A+15.9381443299pt%3B%27%3Ehibernate%3C%2Fa%3E%0A%3Ca+href%3D%27http%
3A%2F%2Fwww.micmiu.com%2Ftag%2Fhive%2F%27+class%3D%27tag-link-
327%27+title%3D%277%E4%B8%AA%E8%AF%9D%E9%A2%98%27+style%3D%27font-
size%3A+12.3298969072pt%3B%27%3EHive%3C%2Fa%3E%0A%3Ca+href%3D%27http%3A%
2F%2Fwww.micmiu.com%2Ftag%2Fitext%2F%27+class%3D%27tag-link-
275%27+title%3D%275%E4%B8%AA%E8%AF%9D%E9%A2%98%27+style%3D%27font-
size%3A+10.5979381443pt%3B%27%3EiText%3C%2Fa%3E%0A%3Ca+href%3D%27http%3A%
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29%27+title%3D%2736%E4%B8%AA%E8%AF%9D%E9%A2%98%27+style%3D%27font-
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micmiu.com%2Ftag%2Fjavascript%2F%27+class%3D%27tag-link-
43%27+title%3D%273%E4%B8%AA%E8%AF%9D%E9%A2%98%27+style%3D%27font-
size%3A+8pt%3B%27%3Ejavascript%3C%2Fa%3E%0A%3Ca+href%3D%27http%3A%2F%2Fw
ww.micmiu.com%2Ftag%2Fjdbc%2F%27+class%3D%27tag-link-
170%27+title%3D%273%E4%B8%AA%E8%AF%9D%E9%A2%98%27+style%3D%27font-
size%3A+8pt%3B%27%3Ejdbc%3C%2Fa%3E%0A%3Ca+href%3D%27http%3A%2F%2Fwww.mi
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<a href="https://cn.wordpress.org/" title="WordPress">WordPress.org</a>
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</div><!-- end: #sidebar-border --></div><!--wrapper-->
<div class="clear"></div>
<div id="footer">
<div id="footer-inside">
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href="http://wordpress.org/">WordPress</a> |:
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</div>
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</html>
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<!-- Cached page generated by WP-Super-Cache on 2016-08-17 23:23:18 -->
<!-- super cache -->
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