

```

<!DOCTYPE html PUBLIC "-//W3C//DTD XHTML 1.0 Transitional//EN"
"http://www.w3.org/TR/xhtml1/DTD/xhtml1-transitional.dtd">
<html xmlns="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>
<link rel="stylesheet" type="text/css" media="all" href="http://www.micmiu.com/wp-
content/themes/zbench/style.css" />
<link 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 -->
<link rel="alternate" type="application/rss+xml" title="micmiu - + &raquo; Feed"
href="http://www.micmiu.com/feed/" />
<link rel="alternate" type="application/rss+xml" title="micmiu - + &raquo; Feed"
href="http://www.micmiu.com/comments/feed/" />
<link rel="alternate" type="application/rss+xml" title="micmiu - + &raquo; /dev/null 2>&gt;&amp;1
Feed" href="http://www.micmiu.com/os/linux/shell-dev-null/feed/" />
<link 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' />
<link 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' />
<link 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 -
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-

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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-
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\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-
highlighter/js/min/crayon.min.js?ver=2.6.9'></script>
<link rel="EditURI" type="application/rsd+xml" title="RSD"
href="http://www.micmiu.com/xmlrpc.php?rsd" />
<link rel="wlwmanifest" type="application/wlwmanifest+xml" href="http://www.micmiu.com/wp-
includes/wlwmanifest.xml" />
<link rel='prev' title='MavenwebEclipse' href='http://www.micmiu.com/software/build/maven-web-
eclipse-deploy/' />
<link rel='next' title='Java ' href='http://www.micmiu.com/lang/java/java-check-chinese/' />
<meta name="generator" content="WordPress 4.1.12" />
<link rel='shortlink' href='http://www.micmiu.com/?p=814' />
<link 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;

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}</style></head>
<body class="single single-post postid-814 single-format-standard">
<div id="nav">
<div id="menus">
<ul><li><a href="http://www.micmiu.com/"></a></li></ul>
<ul id="menu-%e5%af%bc%e8%88%aa%e4%b8%80" class="menu"><li id="menu-item-700"
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">
<li 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></li>
<li 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></li>
<li 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></li>
<li 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></li>
<li 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></li>
<li 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></li>
<li 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>
<ul class="sub-menu">
<li 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></li>
<li 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></li>
</ul>
</li>
</ul>
</li>
<li 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">
<li 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></li>
<li 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></li>
<li id="menu-item-359" class="menu-item menu-item-type-taxonomy menu-item-object-category
```

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menu-item-359"><a href="http://www.micmiu.com/category/hazel-wu/feeling/"></a></li>
</ul>
</li>
<li 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></li>
<li 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></li>
</ul></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 == '')
{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
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">
<p>shell <span style="color: #ff0000;">/dev/null 2>&gt;&amp;1</span> /dev/null ,</p>
<p><span style="color: #0000ff;">>[]</span></p>
<p><span style="color: #ff0000;">> &gt;/dev/null 2>&gt;&amp;1</span> </p>
<ol>
<li><span style="line-height: 22px;"><span style="color: #ff0000;">&gt;</span> echo
&#8220;micmiu.com&#8221; &gt; /home/michaeltest.txt<br />
</span></li>
<li><span style="line-height: 22px;"><span style="color: #ff0000;">/dev/null</span> <br />

```


2 stderr

 2

1 stdout1
”

<p>”</p>
<p>[]</p>
<p>1</p>
<p>2</p>
<p>@Michael Sun.</p>
<div style="background:#F4F5F7;border:1px solid #CCC;font-size: 11px; font-style: italic">
<p> micmiu – +[http://www.micmiu.com/]</p>
<p>: <a href="http://www.micmiu.com/os/linux/shell-dev-
null/">http://www.micmiu.com/os/linux/shell-dev-null/</p>
</div>
<div style="clear:both; margin-top:5px; margin-bottom:5px;"><div style="float:left"><!--
JiaThis Button BEGIN -->
<div id="jiathis_style_32x32">

<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">

</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">
<a href="http://www.micmiu.com/category/os/linux/"
rel="category tag">linux<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-  
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/"  
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"
class="comment-form">
<p class="comment-form-author"><input id="author" name="author" type="text" value="" size="30"
/> <label for="author"><small></small></label></p>
<p class="comment-form-email"><input id="email" name="email" type="text" value="" size="30" />
<label for="email"></label></p>
<p class="comment-form-url"><input id="url" name="url" type="text" value="" size="30" /> <label
for="url"></label></p>
<p class="smilies">
<a href="javascript:grin(':?:')"></a>
<a href="javascript:grin(':razz:')"></a>
<a href="javascript:grin(':sad:')"></a>
<a href="javascript:grin(':evil:')"></a>
<a href="javascript:grin(':!:')"></a>
<a href="javascript:grin(':smile:')"></a>
<a href="javascript:grin(':oops:')"></a>
<a href="javascript:grin(':grin:')"></a>
<a href="javascript:grin(':eek:')"></a>
<a href="javascript:grin(':shock:')"></a>  
<a href="javascript:grin(':???:')"></a>  
<a href="javascript:grin(':cool:')"></a>  
<a href="javascript:grin(':lol:')"></a>  
<a href="javascript:grin(':mad:')"></a>  
<a href="javascript:grin(':twisted:')"></a>  
<a href="javascript:grin(':roll:')"></a>  
<a href="javascript:grin(':wink:')"></a>  
<a href="javascript:grin(':idea:')"></a>  
<a href="javascript:grin(':arrow:')"></a>  
<a href="javascript:grin(':neutral:')"></a>  
<a href="javascript:grin(':cry:')"></a>  
<a href="javascript:grin(':mrgreen:')"></a>  
<br /></p><p class="comment-form-comment"><textarea aria-required="true" rows="8" cols="45"  
name="comment" id="comment"  
onkeydown="if(event.ctrlKey){if(event.keyCode==13){document.getElementById('submit').click();re  
turn false}};"></textarea></p><p class="comment-note"> - <abbr title="HyperText Markup  
Language">HTML</abbr> tags and attributes:<br /> <code>&lt;a href=&quot;&quot;  
title=&quot;&quot;&gt; &lt;abbr title=&quot;&quot;&gt; &lt;acronym title=&quot;&quot;&gt; &lt;b&gt;  
&lt;blockquote cite=&quot;&quot;&gt; &lt;cite&gt; &lt;code class=&quot;&quot; title=&quot;&quot;  
data-url=&quot;&quot;&gt; &lt;del datetime=&quot;&quot;&gt; &lt;em&gt; &lt;i&gt; &lt;q  
cite=&quot;&quot;&gt; &lt;strike&gt; &lt;strong&gt; &lt;pre class=&quot;&quot; title=&quot;&quot;  
data-url=&quot;&quot;&gt; &lt;span class=&quot;&quot; title=&quot;&quot; data-  
url=&quot;&quot;&gt; </code></p><p class="form-submit">  
<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' />  
</p>  
<p style="display: none;"><input type="hidden" id="akismet\_comment\_nonce"



name="akismet\_comment\_nonce" value="c83b686e78" /></p><p style="display: none;"><input type="hidden" id="ak\_js" name="ak\_js" value="221"/></p></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+">Google+</a>

</div>

</div>

</div>

</div>

<div id="sidebar">

<div class="widget"><iframe width="100%" height="400" class="share\_self" frameborder="0" 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&verifier=8df3c22e&dpc=1"></iframe>

</div>

<div id="recent-posts-4" class="widget widget\_recent\_entries"><h3 class="widgettitle"></h3><ul>

<li>

<a href="http://www.micmiu.com/exception/jee-hadoop-nosuchmethod-error-getproblems/">java.lang.NoSuchMethodError: org.eclipse.jdt.internal.compiler.CompilationResult.getProblems()</a>

</li>

<li>

<a href="http://www.micmiu.com/bigdata/hadoop/hadoop-map-inputsplit-filepath/">HadoopMap split</a>

</li>

<li>

<a href="http://www.micmiu.com/bigdata/hadoop/hadoop-many-disk-config/">hadoop</a>

</li>

</li>  
<a href="http://www.micmiu.com/bigdata/hadoop/hadoop-hbase-pid-dir-config/">HadoopPID</a>  
</li>  
</li>  
<a href="http://www.micmiu.com/bigdata/hbase/hbase-snappy-install-config/">HBasesnappy</a>  
</li>  
</li>  
<a href="http://www.micmiu.com/bigdata/hadoop/hadoop-snappy-install-config/">Hadoopsnappy</a>  
</li>  
</li>  
</li>  
<a href="http://www.micmiu.com/hazel-wu/life/happy-new-year/">Happy New Year!</a>  
</li>  
</li>  
<a href="http://www.micmiu.com/bigdata/hbase/hbase-setup-on-hadoop2-nn-ha-zookeeper/">HBase+Hadoop2 NN HA+Zookeeper</a>  
</li>  
</li>  
<a href="http://www.micmiu.com/bigdata/hadoop/hadoop2-cluster-ha-setup/">Hadoop2NNRMHA</a>  
</li>  
</li>  
</li>  
<a href="http://www.micmiu.com/ops/ansible/ansible-requires-a-json-module/">ansible requires a json module, none found</a>  
</li>  
</ul>  
</div><div id="views-4" class="widget widget\_views"><h3 class="widgettitle"></h3><ul>  
<li><a href="http://www.micmiu.com/software/common/intellij-idea-create-maven-web/" title="IntelliJ IDEA MavenWeb">IntelliJ IDEA MavenWeb</a> - 79,030 views</li><li><a href="http://www.micmiu.com/soa/rpc/thrift-sample/" title="ThriftJava">ThriftJava</a> - 63,366 views</li><li><a href="http://www.micmiu.com/enterprise-app/sso/sso-cas-sample/" title="SSO CAS">SSOCAS</a> - 40,004 views</li><li><a href="http://www.micmiu.com/enterprise-app/sso/openldap-windows-config/" title="openLDAPwindows">openLDAPwindows</a> - 31,934 views</li><li><a href="http://www.micmiu.com/software/build/maven-web-eclipse-deploy/" title="MavenwebEclipse">MavenwebEclipse</a> - 30,585 views</li><li><a href="http://www.micmiu.com/lang/java/keytool-start-guide/" title="java keytool">java keytool</a> - 29,446 views</li><li><a href="http://www.micmiu.com/lang/java/java-md5-sha1/" title="javaMD5 SHA1">javaMD5SHA1</a> - 29,235 views</li><li><a href="http://www.micmiu.com/software/build/eclipse-maven-web-lib/" title="Eclipse+Mavenweb Maven lib">Eclipse+MavenwebMaven lib</a> - 26,255 views</li><li><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</li><li><a href="http://www.micmiu.com/opensource/openfire/openfire-src-config/" title="Openfire">Openfire</a> - 18,430 views</li></ul></div><div id="mycategoryorder-3" class="widget widget\_mycategoryorder"><h3 class="widgettitle"></h3><ul>

<li class="cat-item cat-item-249"><a href="http://www.micmiu.com/category/j2ee/" title="J2EE">J2EE</a> (42)

<ul class='children'>

<li class="cat-item cat-item-19"><a href="http://www.micmiu.com/category/j2ee/hibernate/">Hibernate</a> (12)

</li>

<li class="cat-item cat-item-21"><a href="http://www.micmiu.com/category/j2ee/struts/" title="Struts1.x 2.x">Struts</a> (5)

</li>

<li class="cat-item cat-item-27"><a href="http://www.micmiu.com/category/j2ee/spring/" title="Spring framework">Spring</a> (11)

</li>

<li class="cat-item cat-item-253"><a href="http://www.micmiu.com/category/j2ee/jdbc-tech/" title="JDBC">JDBC</a> (6)

</li>

<li class="cat-item cat-item-169"><a href="http://www.micmiu.com/category/j2ee/jta/" title="JTA">JTA</a> (3)

</li>

<li class="cat-item cat-item-314"><a href="http://www.micmiu.com/category/j2ee/ejb/" title="EJB">EJB</a> (4)

</li>

<li class="cat-item cat-item-345"><a href="http://www.micmiu.com/category/j2ee/framework/">framework</a> (1)

</li>

</ul>

</li>

<li class="cat-item cat-item-331"><a href="http://www.micmiu.com/category/bigdata/" title=""></a> (36)

<ul class='children'>

<li class="cat-item cat-item-332"><a href="http://www.micmiu.com/category/bigdata/hadoop/" title="Hadoop">Hadoop</a> (17)

</li>

<li class="cat-item cat-item-327"><a href="http://www.micmiu.com/category/bigdata/hive/" title="Hive">Hive</a> (8)

```

<li class="cat-item cat-item-330"><a href="http://www.micmiu.com/category/bigdata/hbase/"
title="HBase">HBase (7)

<li class="cat-item cat-item-333"><a href="http://www.micmiu.com/category/bigdata/spark/"
title="spark">Spark (2)

<li class="cat-item cat-item-336"><a href="http://www.micmiu.com/category/bigdata/sqoop/"
>Sqoop (2)

<li class="cat-item cat-item-350"> (1)
<ul class='children'>
<li class="cat-item cat-item-351"><a href="http://www.micmiu.com/category/ops/ansible/"
>ansible (1)

<li class="cat-item cat-item-250"><a href="http://www.micmiu.com/category/soa/" title="SOA
WebserviceRPCRMIREST">SOA (14)
<ul class='children'>
<li class="cat-item cat-item-37"><a href="http://www.micmiu.com/category/soa/web service/"
title="web service">web service (12)

<li class="cat-item cat-item-188"><a href="http://www.micmiu.com/category/soa/rpc/" title="remote
procedure call">RPC (2)

<li class="cat-item cat-item-5"><a href="http://www.micmiu.com/category/opensource/" title="
">OpenSource (33)
<ul class='children'>
<li class="cat-item cat-item-54"><a href="http://www.micmiu.com/category/opensource/ofc/"
title="openflashchart">openflashchart (2)

<li class="cat-item cat-item-274"><a href="http://www.micmiu.com/category/opensource/expdoc/"
title="PDFWordExcel"> (5)

<li class="cat-item cat-item-288"><a href="http://www.micmiu.com/category/opensource/openfire/"
title="Openfire">Openfire (4)
```

```

<li class="cat-item cat-item-291"><a href="http://www.micmiu.com/category/opensource/security/"
title="">Security (1)

<li class="cat-item cat-item-318"><a href="http://www.micmiu.com/category/opensource/corba/"
title="CORBAIDLOpenORBJacORB">CORBA (4)

<li class="cat-item cat-item-348"><a href="http://www.micmiu.com/category/opensource/nutch/"
>Nutch (6)

<li class="cat-item cat-item-4">
 (1)
<ul class='children'>
<li class="cat-item cat-item-215"><a href="http://www.micmiu.com/category/architecture/cache/"
title=""> (1)

<li class="cat-item cat-item-62"><a href="http://www.micmiu.com/category/enterprise-app/" title="
"> (24)
<ul class='children'>
<li class="cat-item cat-item-94"><a href="http://www.micmiu.com/category/enterprise-app/snmp/"
title="SNMP">SNMP (8)

<li class="cat-item cat-item-225"><a href="http://www.micmiu.com/category/enterprise-app/sso/"
>SSO (4)

<li class="cat-item cat-item-254"><a href="http://www.micmiu.com/category/enterprise-
app/server/" title="Apache Httpnginxtomcat"> (10)

<li class="cat-item cat-item-20"> (37)
<ul class='children'>
<li class="cat-item cat-item-3"><a href="http://www.micmiu.com/category/lang/java/" title="java
">Java (25)

<li class="cat-item cat-item-43"><a href="http://www.micmiu.com/category/lang/javascript/"
title="javascript">javascript (5)
```

```

<li class="cat-item cat-item-266"><a href="http://www.micmiu.com/category/lang/groovy/"
title="Groovy">Groovy (4)

<li class="cat-item cat-item-311"><a href="http://www.micmiu.com/category/lang/nodejs/"
title="nodejs">nodejs (1)

<li class="cat-item cat-item-346">Go (2)

<li class="cat-item cat-item-7"><a href="http://www.micmiu.com/category/nosql/"
title="nosql">NoSQL (12)
<ul class='children'>
<li class="cat-item cat-item-267"><a href="http://www.micmiu.com/category/nosql/berkeley/"
title="Berkeley DB">Berkeley (6)

<li class="cat-item cat-item-6"> (10)
<ul class='children'>
<li class="cat-item cat-item-18"><a href="http://www.micmiu.com/category/db/oracle-db/"
title="Oracle">Oracle (7)

<li class="cat-item cat-item-108"><a href="http://www.micmiu.com/category/db/mysql/"
title="mysql">mysql (2)

<li class="cat-item cat-item-44"><a href="http://www.micmiu.com/category/android/"
title="Android">Android (4)

<li class="cat-item cat-item-79">web
UI (1)

<li class="cat-item cat-item-33">
(30)
<ul class='children'>
<li class="cat-item cat-item-325"><a href="http://www.micmiu.com/category/software/common/"
title=""> (13)

```

```
<li class="cat-item cat-item-203"><a href="http://www.micmiu.com/category/software/build/" title="
"> (15)

<li class="cat-item cat-item-69">
 (2)

<li class="cat-item cat-item-15"> (26)
<ul class='children'>
<li class="cat-item cat-item-17"><a href="http://www.micmiu.com/category/os/linux/"
title="linux">linux (19)

<li class="cat-item cat-item-233"><a href="http://www.micmiu.com/category/os/windows/"
title="windows">windows (2)

<li class="cat-item cat-item-295"><a href="http://www.micmiu.com/category/os/mac/" title="Mac
OSX">Mac (5)

<li class="cat-item cat-item-9">
(9)
<ul class='children'>
<li class="cat-item cat-item-10"><a href="http://www.micmiu.com/category/hazel-wu/feeling/"
title=""> (3)

<li class="cat-item cat-item-11">
 (6)

<li class="cat-item cat-item-74"><a href="http://www.micmiu.com/category/exception/"
title="Exception"> (23)

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

```
</div>
```

```
<div id="wp-cumulus" class="widget wp_cumulus_widget">
```



<h3 class="widgettitle">(3D)</h3>

<!-- 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"><p><a href='http://www.micmiu.com/tag/android/' class='tag-link-44' title='4' style='font-size: 9.44329896907pt;'>Android</a>

<a href='http://www.micmiu.com/tag/apache/' class='tag-link-117' title='7' style='font-size: 12.3298969072pt;'>apache</a>

<a href='http://www.micmiu.com/tag/atomikos/' class='tag-link-167' title='4' style='font-size: 9.44329896907pt;'>ATOMIKOS</a>

<a href='http://www.micmiu.com/tag/berkeley/' class='tag-link-267' title='6' style='font-size: 11.6082474227pt;'>Berkeley</a>

<a href='http://www.micmiu.com/tag/corba/' class='tag-link-318' title='4' style='font-size: 9.44329896907pt;'>CORBA</a>

<a href='http://www.micmiu.com/tag/eclipse/' class='tag-link-39' title='12' style='font-size: 15.3608247423pt;'>eclipse</a>

<a href='http://www.micmiu.com/tag/groovy/' class='tag-link-266' title='4' style='font-size: 9.44329896907pt;'>Groovy</a>

<a href='http://www.micmiu.com/tag/ha/' class='tag-link-174' title='3' style='font-size: 8pt;'>HA</a>

<a href='http://www.micmiu.com/tag/hadoopv1/' class='tag-link-179' title='18' style='font-size: 17.8144329897pt;'>Hadoop</a>

<a href='http://www.micmiu.com/tag/hbase/' class='tag-link-330' title='11' style='font-size: 14.9278350515pt;'>HBase</a>

<a href='http://www.micmiu.com/tag/hibernate-2/' class='tag-link-24' title='13' style='font-size: 15.9381443299pt;'>hibernate</a>

<a href='http://www.micmiu.com/tag/hive/' class='tag-link-327' title='7' style='font-size: 12.3298969072pt;'>Hive</a>

<a href='http://www.micmiu.com/tag/itext/' class='tag-link-275' title='5' style='font-size: 10.5979381443pt;'>iText</a>

<a href='http://www.micmiu.com/tag/java-2/' class='tag-link-29' title='36' style='font-size: 22pt;'>java</a>

<a href='http://www.micmiu.com/tag/javascript/' class='tag-link-43' title='3' style='font-size: 8pt;'>javascript</a>

<a href='http://www.micmiu.com/tag/jdbc/' class='tag-link-170' title='3' style='font-size: 8pt;'>jdbc</a>

<a href='http://www.micmiu.com/tag/jdk/' class='tag-link-52' title='5' style='font-size: 10.5979381443pt;'>jdk</a>

<a href='http://www.micmiu.com/tag/je/' class='tag-link-268' title='5' style='font-size: 10.5979381443pt;'>JE</a>



<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></p><p>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.</p></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\_so3996248.addParam("allowScriptAccess",

"always");widget\_so3996248.addVariable("tcolor",

"0xFF6601");widget\_so3996248.addVariable("tcolor2",

"0x0299FF");widget\_so3996248.addVariable("hicolor",

"0x81CCFF");widget\_so3996248.addVariable("tspeed",

"100");widget\_so3996248.addVariable("distr", "true");widget\_so3996248.addVariable("mode",

"tags");widget\_so3996248.addVariable("tagcloud",

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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-

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167%27+title%3D%274%E4%B8%AA%E8%AF%9D%E9%A2%98%27+style%3D%27font-

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267%27+title%3D%276%E4%B8%AA%E8%AF%9D%E9%A2%98%27+style%3D%27font-

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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-

39%27+title%3D%2712%E4%B8%AA%E8%AF%9D%E9%A2%98%27+style%3D%27font-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%3A%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.micmiu.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-size%3A+17.8144329897pt%3B%27%3EHadoop%3C%2Fa%3E%0A%3Ca+href%3D%27http%3A%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-size%3A+14.9278350515pt%3B%27%3EHBase%3C%2Fa%3E%0A%3Ca+href%3D%27http%3A%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%2F%2Fwww.micmiu.com%2Ftag%2Fjava-2%2F%27+class%3D%27tag-link-29%27+title%3D%2736%E4%B8%AA%E8%AF%9D%E9%A2%98%27+style%3D%27font-size%3A+22pt%3B%27%3Ejava%3C%2Fa%3E%0A%3Ca+href%3D%27http%3A%2F%2Fwww.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%2Fwww.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.micmiu.com%2Ftag%2Fjdk%2F%27+class%3D%27tag-link-52%27+title%3D%275%E4%B8%AA%E8%AF%9D%E9%A2%98%27+style%3D%27font-size%3A+10.5979381443pt%3B%27%3Ejdk%3C%2Fa%3E%0A%3Ca+href%3D%27http%3A%2F%2Fwww.micmiu.com%2Ftag%2Fje%2F%27+class%3D%27tag-link-268%27+title%3D%275%E4%B8%AA%E8%AF%9D%E9%A2%98%27+style%3D%27font-size%3A+10.5979381443pt%3B%27%3EJE%3C%2Fa%3E%0A%3Ca+href%3D%27http%3A%2F%2Fwww.micmiu.com%2Ftag%2Fjrobin%2F%27+class%3D%27tag-link-95%27+title%3D%273%E4%B8%AA%E8%AF%9D%E9%A2%98%27+style%3D%27font-size%3A+8pt%3B%27%3EJRobin%3C%2Fa%3E%0A%3Ca+href%3D%27http%3A%2F%2Fwww

.micmiu.com%2Ftag%2Fjta%2F%27+class%3D%27tag-link-  
169%27+title%3D%274%E4%B8%AA%E8%AF%9D%E9%A2%98%27+style%3D%27font-  
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2F%2Fwww.micmiu.com%2Ftag%2Fib%2F%27+class%3D%27tag-link-  
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size%3A+8pt%3B%27%3ELB%3C%2Fa%3E%0A%3Ca+href%3D%27http%3A%2F%2Fwww.mic  
miu.com%2Ftag%2Flinux%2F%27+class%3D%27tag-link-  
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296%27+title%3D%275%E4%B8%AA%E8%AF%9D%E9%A2%98%27+style%3D%27font-  
size%3A+10.5979381443pt%3B%27%3Emac%3C%2Fa%3E%0A%3Ca+href%3D%27http%3A%  
2F%2Fwww.micmiu.com%2Ftag%2Fmaven%2F%27+class%3D%27tag-link-  
204%27+title%3D%2713%E4%B8%AA%E8%AF%9D%E9%A2%98%27+style%3D%27font-  
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108%27+title%3D%274%E4%B8%AA%E8%AF%9D%E9%A2%98%27+style%3D%27font-  
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</div>

<div id="linkcat-2" class="widget widget\_links"><h3 class="widgettitle"></h3>

```
<ul class='xoxo blogroll'>
<a href="http://sjsky.iteye.com" onclick="_gaq.push(['_trackEvent', 'outbound-widget',
'http://sjsky.iteye.com', '10me@iteye']);" rel="me" title="ITEye"
target="_blank">10me@iteye
<a href="http://blog.nosqlfan.com/" onclick="_gaq.push(['_trackEvent', 'outbound-widget',
'http://blog.nosqlfan.com/', '21nosqlfan']);" target="_blank">21nosqlfan
<a href="http://www.mysqlops.com" onclick="_gaq.push(['_trackEvent', 'outbound-widget',
'http://www.mysqlops.com', '22mysqlops']);" target="_blank">22mysqlops
<a href="https://code.google.com/p/opencloudb/" onclick="_gaq.push(['_trackEvent',
'outbound-widget', 'https://code.google.com/p/opencloudb/', '23OpenCloudDB']);"
target="_blank">23OpenCloudDB
<a href="http://crazyjvm.iteye.com" onclick="_gaq.push(['_trackEvent', 'outbound-widget',
'http://crazyjvm.iteye.com', '31CrazyJvm']);" target="_blank">31CrazyJvm
<a href="http://fengshenwu.com/blog/" onclick="_gaq.push(['_trackEvent', 'outbound-widget',
'http://fengshenwu.com/blog/', '32']);" target="_blank">32
<a href="http://dongxicheng.org/" onclick="_gaq.push(['_trackEvent', 'outbound-widget',
'http://dongxicheng.org/', '33']);" target="_blank">33
```

```

```

```
</div>
```

```
<div id="meta-5" class="widget widget_meta"><h3 class="widgettitle"></h3>

<abbr title="Really Simple
Syndication">RSS</abbr>
<abbr title="Really Simple
Syndication">RSS</abbr>
WordPress.org
</div>
```

```
</div><!-- end: #sidebar -->
```

```
</div><!-- end: #sidebar-border --></div><!-- wrapper -->
```

```
<div class="clear"></div>
```

```
<div id="footer">
```

```
<div id="footer-inside">
```

```
<p>
```

```
© 2016 micmiu – +| zBench WordPress |:
```

```
<script src="http://s25.cnzz.com/stat.php?id=4591580&web_id=4591580&show=pic1"
language="JavaScript"></script>#
```

```
<script type="text/javascript">
```

```
var _bdhmProtocol = (("https:" == document.location.protocol) ? " https://" : " http://");
document.write(unescape("%3Cscript src='" + _bdhmProtocol +
```

```
"hm.baidu.com/h.js%3F10fd5667f792502fd59e3832b6f54087"
type='text/javascript'%3E%3C/script%3E"));
</script>
</p>
↑
</div>
</div><!--footer-->
<script type='text/javascript' src='http://www.micmiu.com/wp-
content/plugins/akismet/_inc/form.js?ver=3.1.5'></script>
<script type='text/javascript'>
/* <![CDATA[*/
var viewsCacheL10n = {"admin_ajax_url":"http://www.micmiu.com/wp-admin/admin-
ajax.php","post_id":"814"};
/*]]> */
</script>
<script type='text/javascript' src='http://www.micmiu.com/wp-content/plugins/wp-
postviews/postviews-cache.js?ver=1.68'></script>
<script type='text/javascript' src='http://www.micmiu.com/wp-includes/js/comment-
reply.min.js?ver=4.1.12'></script>
</body>
</html>
<!-- Dynamic page generated in 0.596 seconds. -->
<!-- Cached page generated by WP-Super-Cache on 2016-08-17 23:23:18 -->

<!-- super cache -->
```