

# 调用IMP函数指针出现奔溃

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原文链接: <https://ld246.com/article/1461565819838>

来源网站: [链滴](#)

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<pre class="prettyprint prettyprinted"><span class="pun">以下代码是在解决http://www.junwen1992.com//articles/2016/01/11/1452496926024.html篇文章中谈到的js与Obj-C交互的实现中到的。<br /><br />以下方法在执行时是会出现问题的。描述:</span><span class="pln"> target</span><span class="pun">是我定义的一个类叫</span><span class="pln">A</span><span class="pun">类,</span><span class="pln">A</span><span class="pun">类中定义了一个方</span><span class="pun">(</span><span class="kwd">void</span><span class="pun"></span><span class="pln">methodA</span><span class="pun">:(</span><span class="pln">id</span><span class="pun">*</span><span class="pln">str</span><span class="pun">方法。</span><br /><span class="pun">-</span><span class="pun">(</span><span class="pln">id</span><span class="pun">*</span><span class="pln">addTarget</span><span class="pun">:(</span><span class="pln">id</span><span class="pun">*</span><span class="pln">target performFunctionWithName</span><span class="pun">:(</span><span class="pln">NSString</span><span class="pun">*</span><span class="pln">functionName withObject</span><span class="pun">:(</span><span class="pln">id</span><span class="pun">*</span><span class="kwd">object</span><span class="pun">{<br /></span><span class="kwd"> if</span><span class="pun">(</span><span class="pln">target </span><span class="pun">&amp;&amp;</span><span class="pun">[</span><span class="pln">target respondsToSelector</span><span class="pun">:(</span><span class="typ">NSSetSelectorFromString</span><span class="pun">(</span><span class="pln">functionName</span><span class="pun">))]</span><span class="pun">{</span><span class="pln">SEL selector</span><span class="pun">=</span><span class="typ">NSSetSelectorFromString</span><span class="pun">(</span><span class="pln">functionName</span><span class="pun">);</span><span class="pln">IMP imp</span><span class="pun">=</span><span class="pun">[</span><span class="pln">target methodToSelector</span><span class="pun">:(</span><span class="pln">selector</span><span class="pun">];</span><span class="pln">id</span><span class="pun">(</span><span class="pln">func</span><span class="pun">(</span><span class="pln">id</span><span class="pun">,</span><span class="pln">SEL</span><span class="pun">,</span><span class="pln">id</span><span class="pun">=</span><span class="pun">(</span><span class="kwd">void</span><span class="pun">*</span><span class="pln">imp</span><span class="pun">;</span><span class="pln">func</span><span class="pun">(</span><span class="pln">target</span><span class="pun">,</span><span class="pln">selector</span><span class="pun">);<br /></span><span class="kwd"> return</span><span class="kwd"> nil</span><span class="pun">;</span></span><span class="com"> //这个方法有警告,用上面的方法代替,出去警告<br /></span><span class="com"> // [target performSelector:NSSetSelectorFromString(functionName) withObject:object];<br /></span><span class="pun">}</span><span class="kwd"> return</span><span class="pun">(</span><span class="kwd"> nil</span><span class="pun">);<br /></span><span class="pun">}</span><br /><br />转载本博客时请附上本博客链接地址 http://www.junwen1992.com//articles/016/04/25/1461565815354.html<br /><br /><span class="pun">解释:</span><span class="pln">IMP imp</span><span class="pun">=</span><span class="pun">[</span><span class="pln">target methodToSelector</span><span class="pun">:(</span><span class="pln">selector</span><span class="pun">];</span><span class="pln">id</span><span class="pun">=</span><span class="kwd">void</span><span class="pun">*</span><span class="pln">imp</span><span class="pun">;</span><span class="pln">这个方法由于我们这里定义的是</span></pre>

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<pre class="prettyprint prettyprinted"><span class="pln"> id</span><span class="pun">(</span><span class="pln">func</span><span class="pun">(</span><span class="pln">id</span><span class="pun">,</span><span class="pln">SEL</span><span class="pun">,</span><span class="pln">id</span><span class="pun">=</span><span class="kwd">void</span><span class="pun">*</span><span class="pln">imp</span><span class="pun">;</span><span class="pln">这个方法由于我们这里定义的是</span></pre>

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><span class="pln">id</span><span class="pun"></span>返回值类型的，但是实际中</span><span class="pln">A</span><span class="pun">类的方法</span><span class="pln">methodA</span><span class="pun">是无返回值的，所以到了这一步，肯定是会奔溃的。</span><br /><span class="pun">于是解决办法就是在定义的时候判断是否有返回值。</span><br /><span class="pun">如下:</span></pre>

```
<pre class="prettyprint prettyprinted"><span class="kwd">if</span><span class="pun">(</span><span class="pln">target </span><span class="pun">&&</span><span class="pun">)</span><span class="pln">target respondsToSelector</span><span class="pun">:</span><span class="typ">NSSetSelectorFromString</span><span class="pun">(</span><span class="pln">methodName</span><span class="pun">))</span><span class="pun">{</span><span class="pln">
```

```
SEL selector </span><span class="pun">=</span><span class="typ">NSSetSelectorFromS</span><span class="pun">ring</span><span class="pun">(</span><span class="pln">methodName</span><span class="pun">)</span><span class="pun">);</span><span class="typ">Method</span><span class="pln"> method </span><span class="pun">=</span><span class="pln"> class_getInstanceMethod</span><span class="pun">(</span><span class="pln">target </span><span class="kwd">class</span><span class="pun">,</span><span class="pln"> selector</span><span class="pun">);</span><span class="pln">
```

```
constchar </span><span class="pun">*</span><span class="pln">returnType </span><span class="pun">=</span><span class="pln"> method_copyReturnType</span><span class="pun">(</span><span class="pln">method</span><span class="pun">);</span><span class="com">//获得了需要调用的那个方法的返回值类型</span><span class="pln">
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```
IMP imp </span><span class="pun">=</span><span class="pun">(</span><span class="pln">target methodForSelector</span><span class="pun">:</span><span class="pln">selector</span><span class="pun">);</span><span class="kwd">char</span><span class="pun">*</span><span class="pln">voidType </span><span class="pun">=</span><span class="str">"v"</span><span class="pun">);</span><span class="com">//void的返回值类型对应v</span><span class="kwd">if</span><span class="pun">(</span><span class="pln">strcmp</span><span class="pun">(</span><span class="pln">returnType</span><span class="pun">,</span><span class="pln"> voidType</span><span class="pun">)</span><span class="pun">==</span><span class="lit">0</span><span class="pun">)</span><span class="pun">{</span><span class="com">//无返回值类型</span><span class="kwd">void</span><span class="pun">(</span><span class="pln">func</span><span class="pun">)</span><span class="pln">id</span><span class="pun">,</span><span class="pln"> SEL</span><span class="pun">,</span><span class="pln"> id</span><span class="pun">)</span><span class="pun">=</span><span class="pln"> imp</span><span class="pun">);</span><span class="pln">
```

```
func</span><span class="pun">(</span><span class="pln">target</span><span class="pun">,</span><span class="pln"> selector</span><span class="pun">,</span><span class="kwd">object</span><span class="pun">);</span><span class="pun">}</span><span class="kwd">else</span><span class="pun">{</span><span class="com">//有返回值类型</span><span class="pln">
```

```
id </span><span class="pun">(</span><span class="pln">func</span><span class="pun">)</span><span class="pln">id</span><span class="pun">,</span><span class="pln"> SEL</span><span class="pun">,</span><span class="pln"> id</span><span class="pun">)</span><span class="pun">=</span><span class="pln"> imp</span><span class="pun">);</span><span class="kwd">return</span><span class="pln"> func</span><span class="pun">(</span><span class="pln">target</span><span class="pun">,</span><span class="pln">
```

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pln" > selector</span> <span class="pun">,</span> <span class="kwd">object</span> <spa  
class="pun">);</span> <span class="pun">}</span> <span class="kwd">return</span> <sp  
n class="kwd">nil</span> <span class="pun">;</span></pre>
```