

## Wt - Bug #7479

### WResource Multipart Request - Error parsing CGI request

03/04/2020 11:46 AM - Michael Spellman

<b>Status:</b>	New	<b>Start date:</b>	03/04/2020
<b>Priority:</b>	Normal	<b>Due date:</b>	
<b>Assignee:</b>		<b>% Done:</b>	0%
<b>Category:</b>		<b>Estimated time:</b>	0.00 hour
<b>Target version:</b>			
<b>Description</b>			
<p>When I send a multipart HTTP request with or without a file attached to a Resource class derived from WResource, I receive the following error message before any of my code is run:</p>			
@			
Error occurred.			
Error			
occurred.			
Error parsing CGI request: CgiParser: reached end of input while seeking end of headers or content. Format of CGI input is wrong			
@			
That error message appears to come from CgiParser.C and is related to the boundary parsing in multipart requests: <a href="https://github.com/emweb/wt/blob/master/src/web/CgiParser.C">https://github.com/emweb/wt/blob/master/src/web/CgiParser.C</a>			
I ran netcat and discovered a `0` at the end of the request, as described by the author of this blog post, who had the same issue: <a href="https://blog.aeste.my/2019/08/12/multipart-form-data/">https://blog.aeste.my/2019/08/12/multipart-form-data/</a>			
He was using Poco Http Library, I am using a ktor HTTP client library. It appears that he was able to solve it by setting the HTTP protocol version to 1.0.			
HTTP Request:			
@			
POST /api/optimize-pdf HTTP/1.1			
Host: 127.0.0.1:8083			
Accept-Charset: UTF-8			
Accept: /			
User-Agent: Ktor client			
Content-Type: multipart/form-data; boundary= <i>*ktor-30844aa4-4a78-44b5-9429-f2ebb1b55165-ktor-1583318482396*</i> ; charset=UTF-8			
Transfer-Encoding: chunked			
148			
--- <i>*ktor-30844aa4-4a78-44b5-9429-f2ebb1b55165-ktor-1583318482396*</i>			
Content-Disposition: form-data; name="user"			
myuser			
--- <i>*ktor-30844aa4-4a78-44b5-9429-f2ebb1b55165-ktor-1583318482396*</i>			

Content-Disposition: form-data; name="password"

password

---\*ktor-30844aa4-4a78-44b5-9429-f2ebb1b55165-ktor-1583318482396\*---

0

@

## History

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### #1 - 03/04/2020 06:19 PM - Roel Standaert

wthttp at the moment doesn't accept requests that use chunked encoding. We should probably return something else instead when we're getting a request that uses chunked encoding, though.

So we should either:

- Accept chunked encoding. It seems that the RFC does require that chunked encoding is supported by the server.
- Or: reject chunked encoding instead of giving the above error

The reason why he was probably able to solve his issue when switching to HTTP/1.0 is because HTTP/1.0 doesn't support chunked encoding.

I don't know if ktor can be configured to not use chunked encoding in the meantime?