Bug 987069: [isdbo2] Unicode characters in script URIs are not correctly encoded in Debugger Script.url - Sebastian Zartner [:sebo] <sebastianzartner@gmail.com> - 3/24/2014</sebastianzartner@gmail.com>
Attachment 8550523: make ScriptSource filename encoding consistent - Tom Tromey :tromey <ttromey@mozilla.com> - Fri 4:42:00 PM [diff] [details]</ttromey@mozilla.com>
Show Quick Help
Navigation: Overview All Files nsScriptSecurityManager.cpp WebSocket.cpp nsFrameMessageManager.cpp nsGobalWindow.cpp nsSEUptotemplificader.cpp EventListenerManager.cpp nsSProtocolHandler.cpp nsNAIPProvider.cpp nsSEUptotemplificader.cpp nsSEUPtotemplificader.cpp nsSEUPtotemplificader.cpp nsXEUPtotemplificader.cpp Stackerstener.comp, nsXEUPtotemplificader.cpp Stackerstener.comp, Stackerstener.cpp nsXEUPtotemplificader.cpp Stackerstener.cpp NsXEUPtotemplificader.cpp Stackerstener.cpp NsXEUPtotemplificader.cpp Stackerstener.cpp Stackerstener.cpp
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User Tom Tromey <tromey@mozilla.com> Run 987069 - make ScriptSource filename encoding consistent</tromey@mozilla.com>
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Largety fine, but targe enough that the remainder is also Alma targe. FLEAE, for the two of all that is noty, post subsequent patches as separate patches that apply alop the base patch. It was close to a week to review this; if drafter repeat as little of that experience as possible. :-) I see a couple relatively pervasive assumptions here:
* allFILE paths are pure ASCII, or at least UTF-8-encoded (not specified by C++)
On Linux I think this is true these days. Research suggests it's not entirely the case on OS X, tho. And it's just not at all on Windows. http://stackoverflow.com/questions/23285759/fopen-file-name-with-windows Mowever, it seems like most of these uses are going to refer to paths to source files, in a source tree and we already require various things about where one puts a source tree when building. And grobably the only way to deal with this is using a full-fielded file abstraction that understands mative path encodings, along the lines of nsIlocalFile. So this is probably good enough for now, I guess. But I won't be surprised to find out that requiring UTF-8 here breaks something.
Most Linux distros will handle UTF-8, and probably OS X does now, and these are probably mostly debugging uses, so what the heck. We probably assume this a whole bunch of other places, what's one more.
dom/base/nsjSUtils.cpp J* nu3SUtils:GetGallupdocation(JSContext* #Gontext, nsACStrings afilename, and the addition of the string). Please add a comment by the declaration of this function indicating that aFilename will be filled with a UTF-8 encoding of the string. dom/promise/fromiseCallback.cpp 248 Promise* returnedPromise; 259 Stringt* returnedPromise; 250 If NE_SOUCEDBO(r) & So returnedPromise); 251 If NE_SOUCEDBO(r) & So returnedPromise) { 252 JS::ConstUTFEChars; riteBoars; 253 If NE_SOUCEDBO(r) & So returnedPromise) { 254 JS::ConstUTFChars; riteBoars; 255 ConstUTFEChars; riteBoars; 256 ConstUTFEChars; riteBoars; 257 JS::ConstUTFEChars; riteBoars; 258 JS::ConstUTFEChars; 250 JS::ConstUTFEChars; 250 JS::ConstUTFEChars; 20 JS::ConstUTFEChars; 20<
we know we're testing the right datum namely, the argument to evallnSandbox. I suggest var principal = "file:///whee\u2708/";
var URL = principal + "\uD83D\uDEE7.js";
or something that puts distinct Unicode stuffs in both the principal "and the UNL. Well, actually: if it were me, I wouldn't use file: URLs for this. The problem with file: URLs is that the way they get mapped to security origins is unspecified across browsers, and our policy, while a relatively sensible one, isn't the only one on the block. (Specifically, our policy makes file: a multitude of origins, one per directory. Hence the necessity for URL here to be within the folder delineated by principal.) It would be better to use an HTTP URL with IDN in it – say, http://fl/('http://L05929/') or http://L/(('http://L0808
And, as with all the other tests, it'd be really good to have them test more than just a single character, but to include on-BMP, multiple UTE-8 character lengths, and combining characters; and so on.
dom/xbl/nsXBLProtoImpIMethod.cpp
19/ 19/ 19/ 19/ 19/ 19/ 19/ 19/ 19/ 19/
dom/xbl/nsXBLProtoImplProperty.cpp 196 nsbependentString getter(getter[test-sdet[1]); 197 if ([getter.lstmpty[1]) { 198 JSkutocompartment a(cx, aclassDiject); 199 JS:roogiteOptions options(cx); 200 options.setFileMedLine(JS::ConsUUT#Sdars2(functionUri.getterText-sdetLineHumber())) functionUri derives from aclassSST; which seems to derive from mclassName, which ultimately appears to derive from one of two places. See NS_NewXBLImpl.
First, most commonly, it could be the binding URI's spec, which is UTF-8-encoded, all good.
Second, it could be the name attribute on the <implementation> element - <implementation name="XStringBundle"> being the only instance of this in mozilla-central, as far as I can tell. Which could contain anything, not just UTF-8. This DOM-land value is UTF-16, so how is it converted to the nsACString we have here? impl->mClassName.AssignWithConversion(aClassName); That corresponds to:</implementation </implementation>
void nsCString:AssignWithConversion(const nsAString& aData) {
LossyCopyUIFIEtoASCII(aData, *this); }
And despite what the name says, "toASCII" is really "toLatin1". So the universal problem of interpreting Latin1 as UTF-8 arises, we have dataloss at least and buffer overread and other considerations at worst.
Given that this value can legitimately be either UTF-8 or not, we need to fix this at the source. Please file a new bug to do a UTF-16 to UTF-8 conversion in NS_NewXBLmpl for the name="" case, blocking this bug. We need to get mclassName to a single consistent encoding before we can proceed with this code. It's drudgery, but not drudgery worse than what you've already done here. The patch and any other related changes should probably be reviewed by an XBL peer. You could also heckle the original author and have jst (1) review it. https://bonsai.mozilla.org/cvsview2.cgi?diff.mode=context&whitespace_mode=show&">https://bonsai.mozilla.org/cvsview2.cgi?diff.mode=context&whitespace_mode=show&" root=/cvsrot&subdir=mozilla/content/xbl/src&command=DIFF_FRAMESET&file=nsXBLProtoImpl.cpp& rev2=1.8&rev1=1.7> (This last suggestion is mozulu unserious, although 1 will probably communicate his transgressions to him the next time I see him around the office. ;-))
242 and productString setter(sett

155 return false;
156 JSAutophyteString 'Ilename; 157 filename.encodeft/fGx, stri);
158 if (filename) if (filename.encodeUtfS)
js/public/CharacterEncoding.h
109 dhar *c_str() { return reinterpret_cast-char *>(get()); } 110);
111 112/* Similar to UTF8CharsZ, but the chars are const, and allows
113 * sistement. */ Either use //-style comments here, or do
/*
* Similar to UTF8CharsZ, * assignment.
*/
for style.
112 /* Siallar to UTERCharz, but the chars are const, and allows 113 * assignment. */
114 class ConstitUT®CharsZ
116 const char "monta; SpiderMonkey doesn't m/a/s-prefix names, so this should just be data or something.
119 CenstUT#ROnarsZ(): mdata(mullptr)
120 (121)
122 aplLit ConstUTF8Chars2(const char *&Bytes)
and this bytes
122 explicit ConstUT78Chars2(const char *&0ytes)
124 : folta(afg/res) 125 : folta(afg/res)
uza) While it's certainly *convenient* to just make this a 100% lightweight wrapper around a const char*, I think
this is highly likely to make it easy to have misuses, passing Latin1 strings into the constructor. I think we should add some assertions here that check that the input string is not immediately obviously not UTF-8, by
checking some prefix of the string to see whether it's valid UTF-8 or not.
My eyes glazed over a bit reading this patch, so I wrote some code that can be used to sanity-check incoming strings here and anywhere else that's supposed to take exactly UTF-8 input (although in general
we want to throw the C++ type system at such places). I'll upload it here once I've posted this review.
<pre>128 const void *get() const { return m0ata; } 129</pre>
<pre>130 const char *c_str() const { return mData; } 131</pre>
122 operator bool() const (return #lotat = nultptr;) explicit operator bool() - otherwise you can do bizarre things like 1 + ConstUTF8CharsZ() and it'll go
through this conversion (!).
220 / / 221 * Like UT#EXharSTollesTwoByteCharsZ, but for ConstUT#BCharsZ.
222 */ // 223 extern // 223 ex
224 UTRGNarsTollerTollyClantsct Vex. cost ConstUTRGNarsZ Autfs. size_t *outlen;: Why can't these new methods return TwoByteChars, as a single deat structure pairing pointer and length?
Done this way users can have pointer and length decohere from each other, which seems bad.
I think we should fully duplicate the comment by the other method here, with appropriate changes. Better to duplicate, and be absolutely precise about behavior, to help readability, than to cut a corner and save on
code. Readability trumps code size here
231 extern TwoByteCharsZ (JSContext *cx, const UTF8Chars utf8, size t *outlen); 232 LossyITF8CharsZNeWrWoByteCharsZ(JSContext *cx, const UTF8Chars utf8, size t *outlen);
231 extern Nubbytethars2 (JSContext *cx, const UTF8Chars utf8, size_t *outlen); 232 LossyITF8CharsToNewToobytethars2(JSContext *cx, const UTF8Chars utf8, size_t *outlen); 233 234 extern Nubbytethars2
231 extern TweByteChars2 232 LossyITFRChars70MeWr0byteChars2(JSContext *cx, const UTF8Chars utf8, size_t *outlen); 233 234 extern TweByteChars2 235 LossyITFRChars70MeWr0byteChars2(JSContext *cx, const ConstUTF8Chars2 & duf8, size_t *outlen); 55ame Comments as above we should probably duplicate comments a bit harder.
231 extern TwoByteChars2 232 LossyITFAChars70HowTwoByteChars2LISContext *cx, const UTFBChars utf8, size_t *outlen); 233 234 extern TwoByteChars2 235 LossyITFAChars70HowTwoBytEArars2LISContext *cx, const ConstUTFBChars2 & dutf8, size_t *outlen); 235 LossyITFAChars70HowTwoBytEArars2LISContext *cx, const ConstUTFBChars2 & dutf8, size_t *outlen); 236 LossyITFACHARS70HowTwoBytEArars2LISContext *cx, const ConstUTFBChars2 & dutf8, size_t *outlen); 237 LossyITFACHARS70HowTwoBytEArars2LISContext *cx, const ConstUTFBChars2 & dutf8, size_t *outlen); 238 LossyITFACHARS70HowTwoBytEArar2LISCONTExt *cx, const ConstUTFBChars2 & dutf8, size_t *cx, const ConstUTFBChars2 & dutf8, size_t *outlen); 238 LossyITFACHARS70HowTwoBytEArar2LISCONTExt *cx, const ConstUTFBChars2 & dutf8, size_t *cx, const ConstUTFBChars2 & dutf8, size_t *cx, const ConstUTFBChars2 & du
231 extern TwoByteChars2 232 LossyITFRChars70Hom/roByteChars2[JSContext *cx, const UTFRChars utf8, size_t *outlen); 233 234 extern TwoByteChars2 235 LossyITFRChars70Hom/roByteChars2[JSContext *cx, const UTFRChars2 & dutf8, size_t *outlen); 236 mercomments as above - we should probably duplicate comments a bit harder. 5/src/bulltin/TestingFunctions.cpp 1815 char *buf = 15::FormatStackDump(cx, multptr, shoukorgs, shoukocals, showThisProps);
231 extern TuoByteChars2 232 LossyITFRChars7loBe/TuoByteChars2 233 extern TuoByteChars2 233 extern TuoByteChars2 234 extern TuoByteChars2 235 LossyITFRChars7loBe/TuoByteChars2 235 LossyITFRChars7loBe/TubByteChars2 235 LossYITFRChars7loBe/TubByteChars7 235 LossYITFRChars7loBe/TubByteChars7 235 LossYITFRChars7loBe/TubByteChars7 235 LossYITFRChars7loBe/TubByteChars7 235 LossYITFRChars7 235 LossYITFRCha
231 extern TwoByteChars2 232 LossyITFRCharsZMemFvB0yteChars2[JSContext *cx, const UTFRChars utf8, size_t *outlen); 233 234 extern TwoByteChars2 235 LossyITFRCharsZMemFvB0yteChars2[JSContext *cx, const UTFRCharsZ & fort8, size_t *outlen); 236 memerts as above we should probably duplicate comments a bit harder. 5/srcr/builtin/TestingFunctions.cpp 1814 1815 char*buf = 35::FormatStackDump(cx, nullptr, shoukorgs, should cals, showThisProps); 1816 RooteString str(ca); 1817 iff (!tr(: = 32_MexicringGeyZUTFRChars2[buf]))) 1818 return faise; The presence of [showArgs] there is a tell: if you can include arguments, that probably means you can
231 extern TwoByteChars2 232 LasyUTFRCharsZ HomeTwoByteCharsZ LISContext *cx, const UTFRChars utf8, size_t *outlen); 233 234 extern TwoByteCharsZ LISContext *cx, const UTFRCharsZ & dotf8, size_t *outlen); 235 LasyUTFRCharsZ HomeTwoByteCharsZ LISContext *cx, const ConstUTFRCharsZ & dotf8, size_t *outlen); 236 memerts as above we should probably duplicate comments a bit harder. js/src/builtin/TestingFunctions.cpp 1814 1815
231 extern TxeByteChars2 232 LasyUTFRCharsZ HomeTxeByteChars2 LISContext *cx, const UTFRChars utf8, size_t *outlen); 233 LasyUTFRCharsZ HomeTxeByteChars2 LISContext *cx, const ConstUTFRCharsZ Gotf8, size_t *outlen); 235 LasyUTFRCharsToMarkoByteChars2 LISContext *cx, const ConstUTFRCharsZ Gotf8, size_t *outlen); 236 LasyUTFRCharsToMarkoByteChars2 LISContext *cx, const ConstUTFRCharsZ Gotf8, size_t *outlen); 237 LasyUTFRCharsToMarkoByteChars2 LISContext *cx, const ConstUTFRCharsZ Gotf8, size_t *outlen); 238 LasyUTFRCharsToMarkoByteChars2 LISContext *cx, const ConstUTFRCharsZ Gotf8, size_t *outlen); 238 LasyUTFRCharsToMarkoByteCharsZ LISContext *cx, const ConstUTFRCharsZ Gotf8, size_t *outlen); 239 LasyUTFRCharsToMarkoByteCharsZ LISContext *cx, const ConstUTFRCharsZ Gotf8, size_t *outlen); 230 LasyUTFRCharSToMarkoByteCharSZ LISContext *cx, const ConstUTFRCharsZ LowF1))) 230 LasyUTFRCharSToMarkoByteCharSZ LowF1))) 230 LasyUTFRCharSToMarkoByteCharSZ LowF1))) 231 LasyUTFRCHARSTOMARS LasyUTFRCharSZ LowF1))) 232 LasyUTFRCHARSTOMARS LasyUTFRCHARSTOWARS LowF1 Law Lasy Lister ConstUTFRCHARSTOWARS LasyUTFRCHARSTOWARS Las
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Same non-BMP, combining characters gamut.	
js/src/jit-test/tests/saved-stacks/display-url-encoding.js	
1//Test that saved stacks don't mangle the encoding of the source. 2	
3// Mything outside of AGTI will do. 4 Let name = Thies//nheeu2006.js*;	
Same non-BMP, combining characters gamut.	
js/src/jit/BaselineBailouts.cpp	
<pre>1145 cx->runtime()->spsProfiler.updatePC(script, script->code()); 1146 }</pre>	
1147 // Reviser ballout with profiler.	
<pre>1149 const char "filename = script>-filename().c_str();</pre>	
it's rair from clear that it's okay for this UI-ro string to now into the Uses below. Please ado comments by SPSPFORTIER:setEventMarker to clarify that the provided function is invoked with a UT-R3 string, and by	
js::RegisterRuntimeProfilingEventMarker that calls it.	
As for whether all the different markers are fine.	
It looks like &Profiler(JSEventMarker from toolkit/profiler/PseudoStack.h is okay that spews through a	
JSStreamWriter that treats the string as UTF-8.	
And it looks like &PrintProfilerEvents_Callback from the JS shell is also fine, as it just fprintfs.	
So I think this is just a doc fix, no more.	
js/src/jit/C1Spewer.cpp	
34	
<pre>35 fprintf(spewot_"begin_compliation(n"); 36 if(script){</pre>	
<pre>77 fprint(speeut_, * name \%sid\\n', script-Filemae().cstr(), (int)script-linend(); 81 fprint(speeut_, * name \%sid\\n', script-Filemae().cstr(), (int)script-linend();</pre>	
While you're touching this, mind switching the linenos to PRIUSIZE in mozilla/SizePrintfMacros.h and	
removing casss?	
para fuji Cudesena ratio, cpp 3770 e i fale febric	
3771 const char + filemage - multiptr; 3772 using likelihner = 0, columbiner = 0.	
3773 di (urrent-vali) (sinfo) scripti) { (di sunt) }	
Sol went to search for filename(). In this file to double-check context, and I discovered at least one,	
probably more, calls to filename() that are then passed as arguments to jitSpew, then JS saprintf, and may be there, and links functions. This depart really work as non-ROO objects call be passed to allowing the same of th	
notation per C++11 (a DR adjusted this to allow complex denotes behavior, but extracting out a const	
char* for an argument not of that type probably is UB as well).	
clang at least has a warning/error if you do this I suggest compiling a debug build with clang and seeing	
where you hie errors, then mxing them in a "separate" patch atop this one. (I'm aiready well into this patch, would rather not discard my work.)	
7187 crdin-scelf4880rt erdelMail () -	
1189 If (cx-sruntime()-spsProfiler.enabled()) {	
This flows into JitSpew which seems, laboriously, to flow into fprintf, so is okay. Right?	
js/src/jit/jitFrames.cpp	
2492 fprintf(stderr, "global frame, no callee\n');	
2493) 2494	
2495 forintfistderr. " file %s line %u\n".	
2496 script()->filename().<_str(), (unsigned) script()->lineno()); Again use PRIuSIZE here, since you're touching it.	
2496 script()->1lemme().c_str(). (unsigned) script()->lneno()); Again use PRIUSIZE here, since you're touching it. 2541 fprintf(stderr, * global frame, no callee\n*);	
2496 script()->filemame().c_str(). (unsigned) script()->lnemo()); Again use PRIUSIZE here, since you're touching it. 2541 fprintf(stderr, * global frame, no callee\n*); 2542 } 2543	
2496 script()->filemane()<	
2456 script()->filemame():<_str(), (unsigned) script()->lineno()); Again use PRIUSIZE here, since you're touching it. 2541 fprintf(stderr, * global frame, no callee\n'); 2542 } 2544 fprintf(stderr, * file % line %u\n*, script()-filemame():<_str(), (unsigned) script()->lineno()); 254 script()-filemame():<_str(), (unsigned) script()->lineno()); And here. And here.	
24%6 script()->filemame():<_str(), (unsigned) script()->lineno()); Again use PRIUSIZE here, since you're touching it. 2541 fprintf(stderr, * global frame, no callee\n*); 2542 } 2543 script()->tilemame().<_str(), (unsigned) script()->lineno()); 2544 fprintf(stderr, * file % line %u\n*, script()->lineno()); 2545 script()-yilemame().<_str(), (unsigned) script()->lineno()); And here. js/src/jit/RematerializedFrame.cpp	
2446 script()->filemame():<_str(), (unsigned) script()->lineno()); Again use PRIUSIZE here, since you're touching it. 2541 fprintf(stderr, * global frame, no callee\n*); 2542 >543 2544 fprintf(stderr, * file % line %\n*, script()->linenae().c_str(), (unsigned) script()>lineno()); And here. js/src/jlt/RematerializedFrame.cpp 166 fprintf(stderr, * global frame, no callee\n*); 167 }	
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2446 tcript()-yilemme() <_str(), (unsigned) script()->lineno()); Again use PRLUSIZE here, since you're touching it. 2541 fprintf(stderr, * global frame, no calles!n'); 2543 2544 fprintf(stderr, * flobal frame, no calles!n'); 2543 2544 fprintf(stderr, * flobal frame, no calles!n'); 2545 script()-yilemme().c_str(), (unsigned) script()->lineno()); And here. [s/src/jit/RematelizedFrame.cpp] 166 fprintf(stderr, * global frame, no calles!n'); 17 167 168 169 169 161 162 163 164 165 166 167 168 169 169 160 161 162 163 164 165 166 167 168 169 169 161 162 163 164	
<pre>246 script()->filemame().c_str().(unsigned) script()->lineno()); Again use PRIUSIZE here, since you're touching it. 254 foriar(f(ster, * global frame, no calles/n'); 254 foriar(f(ster, * file % line %u^*, 255 script()->lineno()); And here. 255 script()->filemame().c_str().(unsigned) script()->lineno()); 66 foriar(f(ster, * global frame, no calles/n*); 167 foriar(f(ster, * file % line %u offset %zu/n*, 178 foriar(f(ster, * file % line %u offset %zu/n*, 179 script()->lineno().c_str().(unsigned) script()->lineno(), Change %%zu* to %s "PRIUSIZE with SizePrint/Macros.h, same as mentioned elsewhere. Whoever wrote this must not have realized that MSVC doesn't support and with set %zu* (n %s "PRIUSIZE with SizePrint/Macros.h, same as mentioned elsewhere. Vhoever wrote this must not have realized that MSVC doesn't support and %z specifiers. >(</pre>	
2446 script()->filemame():<_str(). (unsigned) script():>lineno()); Again use PRUBZIZE here, since you're touching it. 2541 fprintf(stderr, * global frame, no calles/n'); 2542 ; 2543 fprintf(stderr, * global frame, no calles/n'); 2544 script()->filemame(). 2545 script()->filemame(). 2546 fprintf(stderr, * global frame, no calles/n'); 2547 script()->filemame(). 2548 fprintf(stderr, * global frame, no calles/n'); 2549 fprintf(stderr, * global frame, no calles/n'); 2549 fprintf(stderr, * flobal frame, no calles/n'); 2549 fprint(stderr, * flobal frame, no calles/n'); 2549 fprintf(stderr, * flobal frame, no calles/n'); 256	
2446 script()->filemen():_str(). (unsigned) script()->lineno()); Again use PRUBZIE here, since you're touching it. 2541 fprintf(stderr, * global frame, no calle(*n'); 2542 } 2543 fprintf(stderr, * global frame, no calle(*n'); 2544 fprintf(stderr, * global frame, no calle(*n'); 2545 script()->lineno(); And here. ////////////////////////////////////	
<pre>245 script()->filemame():<_str(). (unsigned) script().>lineno()); Again use PRUUSIZE here, since you're touching it. 254 fprintf(stderr, * global frame, no calles/n'); 254 script()->filemame():<_str(). (unsigned) script().>lineno()); And here. 355 fprintf(stderr, * global frame, no calles/n'); 366 fprintf(stderr, * file % line %u offset %zu/n', 367 script()->filemame():<_str(). (unsigned) script().>lineno()); Change %zu'to %s PRUSIZE hhe sterint().>lineno(), Change %zu'to %s PRUSIZE hhe sterint().>lineno(), Sterint(stderr, * global frame.cp) 3 static const thar code[] = 'ne Dataliew(new ArayBoffer(0))'; 4 script().>filenow(); 5 script().</pre>	
<pre>246 script1>/fleeme()<_str().(unsigned) script()>lnemo()); Again use PRLuBJZE here, since you're touching lt.</pre>	
<pre>246 script()=filemen():<_str().(unsigned) script()=>linend()); Again use PRIuSIZE here, since you're touching it. 254 forint(stderr, * global frame, no calles(n'); 255 script()=filemen():<_str().(unsigned) script()=>linend()); And here. 256 script()=filemen():<_str().(unsigned) script()=>linend()); And here. 257 script()=filemen():<_str().(unsigned) script()=>linend()); 268 for forint(stderr, * global frame, no calles(n*); 269 forint(stderr, * file % line % unifset % subn*, 269 forint(stderr, * file % line % unifset % subn*, 260 for forint(stderr, * file % line % unifset % subn*, 260 for forint(stderr, * file % line % unifset % subn*, 260 for % PRIUSIZE with SizePrintMacrosh, same as mentioned elsewhere. Whoever wrote this must not have realized that MSVC doesn't support any %z specifiers. :-(257 script()=stlemed):_setr().(unsigned) script()=>line(), 257 script()=stlemed):_setr().(unsigned) script()==line(), 257 script()=stlemed):_setr().(unsigned):_setr(): 257 script()=stlemed):_setr().(unsigned):_setr(): 257 script()=stlemed):_setr().(unsigned):_setr(): 257 script()=stlemed):_setr().(unsigned):_setr(): 257 script()=stlemed):_setr().(unsigned):_setr(): 257 script()=stlemed):_setr(): 257 script()=stlemed):_setr(): 257 script()=stlemed):_setr(): 257 script()=stlemed):_setr(): 257 script()=stlemed):_setr(): 257 s</pre>	
<pre>246 script()=filemen():_gtr()_(unsigned) script()=>lineno()); Again use PRUBJZE here, since you're touching it. 251 fprintf(stderr, * global frame, no calles(n'); 252 script()=filemame()gtr()_(unsigned) script()=>lineno()); And here. 254 fprintf(stderr, * file % line %un*, 255 script()==filemame()gtr()_(unsigned) script()=>lineno()); And here. 256 fprintf(stderr, * global frame, no calles(n*); 267 fprintf(stderr, * file % line %un*, 268 script()==filemame()gtr()_(unsigned) script()=>lineno()); 269 fprintf(stderr, * file % line %un*, 260 script()==filemame()gtr()_(unsigned) script()=>lineno()); 260 change "%zu" to "%" PRUSJZE with SizePrintfMacros.h, same as mentioned elsewhere. Whoever wrote this 251 must not have realized that MSVC doesn't support any %z specifiers. :<(252 script()=filemame()gtr()_(unsigned) script()=>lineno()); 253 static comt char code[] = 'meo DataVise(mew ArrayBuffer(B)'; 4 55 si:Roted=Si:Nalwe val(cs); 57 si:Roted=Si:Nalwe val(cs); 58 si:Roted=Si:Nalwe val(cs); 59 static comt char code[] = 'meo DataVise(mew ArrayBuffer(B)'; 4 50 si:Roted=Si:Nalwe val(cs); 51 si:Roted=Si:Nalwe val(cs); 52 si:Roted=Si:Nalwe val(cs); 53 si:Roted=Si:Nalwe val(cs); 54 si:Roted=Si:Nalwe val(cs); 55 si:Roted=Si:Nalwe val(cs); 56 si:Natues a particular charset for _FILE_, _LINE_). 4 57 Hir (15):Tealated(c, global, ets:stefileMdLine(5):ConstUTMECharsZ[rFILE_), _LINE_). 57 Hir (15):Tealated(c, global, ets:stefileMdLine(5):ConstUTMECharsZ[rFILE_), _LINE_). 57 Hir (15):Tealated(c, global, ets:stefileMdLine(5):ConstUTMECharsZ[rFILE_), _LINE_). 58 Hom. Nothing guarantees a particular charset for _FILE_, _But I'm not sure there's really anything we can do about that in any event. :-()</pre>	
<pre>244 script()=filemen():_gtr()_(insigned) script()=>linend()); Again use PRUBJZE here, since you're touching it. 541 fprintf(stderr, * global frae, no calle(n*); 542 } 543 fprintf(stderr, * file % line %uh, 544 } 544 / 545 script()=filemen()gtr()_(insigned) script()=>linend()); And here. 546 fprintf(stderr, * global frame, no calle(n*); 546 fprintf(stderr, * file % line %u offset %uh, 10 script()=filemen()gtr()_(insigned) script()=>linend()); Change "%zu" to "%" PRUSJZE with SizePrintfMacrosh, same as mentioned elsewhere. Whoever wrote this must not have realized that MSVC doesn't support any %z specifiers. :<(55 script()=filement)gtr()_filement support any %z specifiers. :<(56 script()=filement)gtr()_filement support any %z specifiers. :<(57 script()=filement support any %z specifiers. :<(57 script()=filement support any %z specifiers. :<(57 script()=filement support any %z specifiers. :</pre>	
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365 // purpose. 366 Resolutions() 367 : entredirerors_(false), 368 Introduced Titlemane_(), 368 Introduced Titlemane_(),
kemove these, it's implied by C++ and seems nicer to not say anything when hull-initializing is the obvious expected behavior for a smart-ish pointer.
3805 /* These setters make copies of their string arguments, and are fallable. */ 3806 bool setTileIJSContext **x, const ConstUTFRCharsZ 6/; 3806 bool setTileIJSContext **x, const ConstUTFRCharsZ 6/; 3808 bool setSourceMupURL(JSContext **x, const ConstUTFRCharsZ 5/; 3809 bool setSourceMupURL(JSContext **x, const ConstUTFRCharsZ 5/; 3809 bool setInroducerTINMenes(JSContext **x, const ConstUTFRCharsZ 5/; We should add UniquePtr-style versions of these at some point so that callers that have just created a string don't have to have it copied again. I wonder if that' need bug 1035966 (which is doable now that we have actual nullptr on all supported compilers), or if we would want to use some mechanism not *exactLy* UniquePtr for that
Or there's that "make this all JSString*" approach that seems most ideal to me, and doesn't UniquePtr anything, but requires making this stuff GC-correct, which is non-trivial enough to certainly be deferrable past fixing the issue here. ψ.
3963 JS::MutableHandleScript script); 3964
<pre>3965 extern 35_PUBLIC_API(bool) 3966 Comple(Scontext *cx, Js:HandleObject obj, const ReadOnlyCompleOptions &options, const J5::ConstUTF8CharsZ &filename, 3967 J5::NtableHandleScript script); Line-wrapping point is at 99ch, so this is far over-long and needs rewrapping.</pre>
4240 extern 35 PUBLIC_APT(JSString *) 4241 JS NedStringCoy/ZJSContext *cx, const char *s);
424 2 4243 extern 35_PUBLIC_AFI(JSString *) 4244 JS_NewStringCopyUTF8JZ somext *c, const 35::ConstUTF8CharsZ 66); 1 think JS_NewStringCopyUTF8Z seems more consistent with the type name. The Z is a terminator it belongs at end of the name. And logically, we're accepting UTF-8 data, that's null-terminated. That lines up best with *UTF8Z for the name. Herer/team cnn
296 return nullptr;
298 /* Scood, try the actual (lienae. */ 299 else if (const char *filenae = i.scriptFilenae().c_str()) { 300 if (100, append(filenae, strien(filenae))) This treats the filename as Latin1, not as Unicode. Should be visible in new Error().stack, very clearly. This should have a test for it, assuming (as seems likely) that it has none now.
Let's add (in a separate bug/patch, blocking this bug) StringBuffer::appendUTF8(const char*) and
StringBuffer::appendUTF8()5::ConstUTF8CharsZ) methods. For starters just have them use InflateUTF8StringToBuffer in the stupidest way possible, into a buffer of 16-bit characters, then append that. We can have another bug after that to do something cleaner, that doesn't require extra temporary storage.
Also please file a bug to rename StringBuffer::append(const char*) to StringBuffer::appendLatin1(const char*). That rename can (and *should*) happen after all this bug and patchwork wraps up.
<pre>721 722 if (reportp & for reportp->filename) { 723 filename = strrchr(reportp->filename.c_str(), '/'); 724 if (filename)</pre>
125 Titemame++; I guess ever going to just hope that addons don't have too many Unicode-named files, because we're changing the histogram key we're using here. Had to happen eventually, I guess. And maybe this is purely for our going editions and we can survey up the change on our going editions.
js/src/jsfriendapi.cpp
701 RootedDbject scopethain(cx, iter.scopethain(cx)); 703 DSAutoCompartment ac(cx, scopethain); 704 For a scopethain(c);
705 const char "filename = script-sfilename().c_str(); Oh blah, this is why you changed that one use of this in TestingFunctions.cpp. Bleargh. Congratulations on getting to audit all the code used by FormatStackDump to make it all consistently UTF-8! :-\ We can't have it be half-Latin1, half-UTF-8, because then it's neither.
js/src/jsfriendapi.h 415 * Set *src and *length to refer to the source code for filename].
416 * On success, the caller owns the buffer to which *src points, and 417 * should use JS_free to free it. 418 */
419 virtual boot load/UScontext *cx, const J5::ConstUTFRDmrzf &filemame, charl6_t **src, size_t *tength) = 0; Hmm, at some point we should make this return some sort of TwoByteChars containing a UniquePtr. Or make it return a JSString* if we can get all these filename bits to use that representation instead. Not now, of course.
js/src/jsinfer.cpp 219 unsigned JSScript::id() {
220 if (!id_) { 221 id_ = ++compartment()->types.scriptCount; 222 id_ = ++compartment()->types.scriptCount; 223 tofe=script_man_bs_termint_main_bs_termint_
223 id_, this, filename() ? filename() : J5::ConstUTF8Chars2(<mulls*), lineno());<br="">PRIuSIZE, and fix the ridiculously non-standard formatting while you're here:</mulls*),>
unsigned
155cmptdu() { if (lid.) {
Uh, this also looks like a place that's passing a non-POD to varargs.
227 fprint(sterr, "Eval"); 228 else
<pre>522 fprint(tsderr, "#win"); 523 fprint(tsderr, " #w %s:%d ", script->id(), script->filename().c_str(), (int) script->lineno()); PRUGZE</pre>
js/src/jsobj.cpp
3768 if (fun->hasScript()) { 3769 JScript *script = fun->nonLazyScript();
<pre>3770 fprintf(stderr, " (%:%d)", 3771 script->filename() < script->filename().c_str() : "", (int) script->lineno()); Fiv the DDJ(s/JZ #while you're here2</pre>
4004 }
4005 fputc('\n', stderr); 4006 4007 forintf(stderr, "file %s Line %u\n".
4008 i.script()->filename().c_str(), (unsigned) i.script()->lineno()); And here.
4050 depth, (i.isJit() ? 0 : i.interpFrame()), filename, line, 4051 script, script-scriD0ffset(1,pc()));
4052 } 4053 fprint((stdout, "%s", sprinter.string()); 6054 #idd/ yn VTP22
Immediately below this is
OutputDebugStringA(sprinter.string());
which won't handle UTF-8. On the other hand. <https: en-us="" library="" msdn.microsoft.com="" td="" windows<=""></https:>

Patch Review of Attachment 8550523 for Bug 987069

/desktop/aa363362%28v=vs.85%29.aspx> says that the method won't handle all Unicode characters, so we lose no matter what we do. So that's good enough − but please add a comment saying that even OutputDebugStringW won't handle all Unicode characters, so we're just going to not care that this method drops even more of them.
js/src/jsopcode.cpp
292 fprintfstdout, " SCRIPT %s:Hd\n", script->filename().c_str(), (int) script->lineno());
294 js_Dump/Counts(cx, scring), dsprinter); 295 fputs(sprinter,string), stool);
<pre>296 fprintfistout, BHD SOUPT %:4 h*, script->flemme().c_str(), (int) script->lineno()); Make these both PRUSIZE as well.</pre>
2.143
2144 AppendSXMPropertylbar, *f11e*, N0_COMMA); 2145 JSString*tr=HegString*trz(HegString*trz);
2146 if (istr :!(str = StringToSource(cx, str))) 2147 erunn mulletr
Make the declaration here a RootedString, please. I'm mildly surprised there's no rooting hazard flagged
nere.
pisitiparemeticipy 3422 Roberstring src(cr, ToString-Cando-(cr, args[0]));
3422 if (isrc) 3424 erburn false:
3425 3426 Scould ErmaBrocks, filanaufkar:
Change this to UniquePtr <char[], js::freepolicy=""> while you're here. You'll have to change the assignment</char[],>
below to a .reset(), but otherwise it should all be identical.
3424 return false; 3425
3426 ScopeUSFreePrechars/Itlesmethars; 3427 Botedialum(1)ametric)
3428 filename.setWoll();
instead or [niename] as kootedvalue, make it kootedstring, ikootedstring niename(xx); will be initialized to nulleft, then you can make the argument type HandleString, then use [if (stri)] to determine whether to
atomize and set the member variable.
3664 RootedString strice, ToString <cangc-(cs, prop));<="" td=""></cangc-(cs,>
9465 11 (13t7) 3466 return falss;
- 400/ 3468 filename.setString(str);
filename as RootedString lets us just ToString directly into it and eliminate the [str] here.
js/src/jsscript.cpp 2023 - the temptod - Exemptodexed/additional (it energy additional for a state of the temptode in temp
2039 options_introductionType); options_introductionType);
2040 return false
Add a comment by filename_ indicating that its contents are UTF-8, please.
js/src/shell/js.cpp
849 return false: 850 ·)
331 Skutadytéstring filenane; 152 filenane provadifiéro, stri
853 if ((filename)) [/ (filename) = constal info(constal
in (menafice):(cubecube(cx, su)) return false;
913 return false;
914 char +f1(elkme = f1(elkmeEytes, encodeUtf8(cx, s); 915 if ('1(elkme)
916 return false: 017 on too safella (S-ConstITER/Dars7(1)allana))-
if (IfileNameBytes.encodeUt8(cx, s))
return false; options.sztrile(JS::ConstUTF8CharsZ(fileNameBytes.ptr()));
165 estem follow
1499 args[0].estString(st7); 1460 args[0].estString(st7);
1461 Jaurovjetsiring filemene; 1462 filemene endedVF160(s.yft);
1465 IT (TiteRame) Same
ISAutoRyteString filename:
if (filename.encodeUtf8(cx, str))
return raise;
dance.
1478 int54_t startClock = PRHJ_Now(); 1479 / /
1480 JS::CompileBpLins optime(u);
<pre>lwsi vp.ums.setiintuoutiumiipei js mettiim (in lensme, ptr()), 1) l422</pre>
I don't believe this is right above filename is constructed using (JSContext*, HandleString), which calls JS_EncodeString, which doesEncodeLain1. Make that
ISAutoRyteString filename
if (Ifilename.encodeUtf8(cx, str))
retum raise;
instead, then this will be okay.
2357 return false: DSB Statebork Fring fileana-
2359 f.lleame.acodutt6(cx, str); 2351 f.lleame.acodutt6(cx, str);
2361 return false;
same
JSAB5 filename;
return false;
nit.
js/src/tests/js1_5/Exceptions/error-encoding.js
2 3// Test that Error.fileName is consistently encoded.
4 5 // Anvibleo outside of ASCII will do here.
6 ver UBL = file:///whereu2008.js*;
Same non-per, computing Characters stur.
José Santa Santa 1959
1051 Partern({ source: "quad.js", start: { line: 1, column: 20 }, end: { line: 1, column: 29 } }).match(fourAC.loc); 1052
1053// Bug 987069: encoding of the UBL. Anything outside of ASCII will do. 1054 cost UBL = "file://wheeV2008.js"
Non-BMP, combining characters.
js/src/vm/CharacterEncoding.cpp
327 return true:
229 j 330
331 template <inflateutf8action action=""></inflateutf8action>

js/src/vm/Debugger.cpp
3300 /# Compute wilfString and display/D/Chars (if a wil or display/D) was
330) given respectively. // interspectively. /
3393 RooteString str(x, url.tdsTring()); 3394 if (urlCtstring, condet)file(x, str))
Please adjust the comment by urlCString, too:
/* uni as a UTF-8 C string. */
or something along those lines. This is another place where ISString* would make things oh so much
simpler. But for later.
4224 if (script-sscriptSurce()-shtroducerFileman()) filemame = script-sscriptSurce()-shtroducerFileman();
<pre>4226 else 4227 filename = script->filename();</pre>
4228 str = MediringCopy21178-CambCo(cx, filemed); Move the declaration down to here, and put a blank line above this, for breathing space.
6013 if (lv.isikdefined()) {
6014 RootesString urL_str(cx, toString <cangc-(cx, td="" v));<=""> 6015 1f (urL_str);</cangc-(cx,>
0016 return Taide; 0017 ret = url.ytes.modeUtf8(cx, url_str);
ins juni variade seens to be largery someone's name to understand under SAUGUSPUN ing has a puri method to get the string. Please remove the juni variable, rename juni zystegi to juni, and just use
jun,proj nurtie down in dis mechao.
Uri, make it
ir (jun gytes encoeutra(cx, un_str)) retum false;
as there's no need for an assignment, then null-checking that variable.
js/sr/um/MemoryMetrics.cpp
449 450 rtStats>runtime.scriptSourceInfo.add(info);
452 if (granubarity == FineGranded) { 453 const char' [Henner = 3-5*[Lenner(), c str():
Can you propagate ConstUTFRCharsZ down into the type of the allScriptSources map here, and MotableStriptingting inclusted here its eventhing looker for pain of the second program of the second progr
(nslMemoryReporterCallback::callback accepts an AUTF8String path), but better to be more explicit about it.
js/sr/um/Probes.cpp
47 return probes:culluans; 48 if (sciut-stilename())
49 return probes::monymoustame; 50 return script-Stlemane().c.str();
I'm going to pretend that DTrace is fine accepting UTF-8 here, because cursory anecdotal searching suggests DTrace is all-UTF-8 for string arouments. If that's wrong, someone else can determine it at that
time, given DTrace is relatively underused last I knew.
JustCvm/srsysrometcpp 272 // Get the function name. if any.
273 JSAtom *atom = msybeFun / msybeFun->displayAtom() : nullptr: 274
275 // Get the script filemame, if any, and its length. 276 const that "filemae" = script-filemae(.csrt): Please convert this to a ConstUFF8CharsZ. This use flows onward to a bunch of random code that would be much closer with a before there on the script filemae(.csrt):
As for whether all that code is copacetic with this. This is unclear to me. This flows into ProfileEntry structs and a bunch of other places, including Breakpad code that largely doesn't examine it for encoding
purposes, puir may have missed sometiming. Prease ask someone ramming with breakpad to review an me
purposes, but i may have missed sometimes, relace ask sometime familian with breakpad to be view an the uses of ProfileEntry:label() to ensure they're all fine accepting UTF-8 data. The use in tools/profiler /BreakpadSampler.cpp is the one that has me most potentially worried about introducing UTF-8 here, where it might proscible have one have not been understood before
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Patch Review of Attachment 8550523 for Bug 987069

Debugger::drainTraceLoggerScriptCalls that passes the exposed const char* to JSAPI as if it were Latin-1 strings. (I haven't tracked any other uses of this bit of use of the string.)										
And later in gOCEP, the string created here is interpolated into [str] passed in [graph->addTextld(textld, str);]. That method does [js::FileEscapedString(dictFile, text, strlen(text), "")] with [text == str]. And FileEscapedString doesn't understand UTF-8 input.										
As for how to deal with this. understands TraceLogger coor been correctly changed. And	Um. I guess track h de should review this d probably ConstUTF	arder into users/callers? And probably someor portion of changes, to be sure the utomst ext 8CharsZ should be used as a type in at least so	e who ents have ome of these							
js/xpconnect/src/XPCShellimpl.cp	рр									
321 return false;										
<pre>322 } 323 J5::CompleQuints options(cx);</pre>										
324 options.setUTF8(true) 325 .setFileAndLine(JS::	<pre>324 options.setUTF8(true) 325 .setFileAndLine(JS::ConstUTF8CharsZ(filename.ptr()), 1)</pre>									
JSABS filename; f (/filename.encodeUtB(cx.str))										
return false;	if (!nlename.encodeUtf8(cx, str)) return false;									
above this, else this is wrong	g.									
<pre>824 JS_BeginRequest(cx); 825</pre>										
826 JS::CompileOptions options 827 options.setUTF8(true)	(cx);									
828 .setFileAndLine(JS:	:ConstUTF8CharsZ(filenam	e), 1) ne arguments (or at least paths) are LITE-8 as :	vell Given							
this is mostly for in-tree path	ns, or paths to files in	trees, or test harness stuff, okay. But put a co	mment by							
is/xpconnect/tests/chrome/test x	n. xravLogEncoding.xu									
45 };	.,.,.,.,.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,									
46 47 theconsole.registerListener(liste	ener);									
49 var myURL = "file:///whee+.js"; As usual it'd be really really r	really nice to test a l	arger variety of LIRLs with non-RMP, combining	characters							
etc. here.	really file to test a l	anger variety of ortes with hori-bird , combining	characters,							
js/xpconnect/tests/mochitest/tes	st_bug987069.html									
12 13 /** Test for Bug 987069 **/										
14 15 var theurl = "http://subl.ält.examp 16 CimpleTect.upitEerEveligitEinish()	ple.org:8000/tests/js/xp	connect/tests/mochitest/file_bug987069.js";								
Again fine, just test a few mo	, pre domains, please.	If you need more I don't think we have any	that are							
non-BMP yet, or that contain subdomains underneath exar	combining characte mple.com.	rs you can add them to build/pgo/server-loca	tions.txt, as							
xpcom/threads/ThreadStackHelp	per.cpp									
<pre>584 MOZ_ASSERT(aEntry->script()); 585</pre>										
<pre>586 const char* label; 587 if (IsChromeJSScript(aEntry->script))</pre>	ipt())) {									
588 const char* filename = JS_GetSo It looks to me like we append	criptFilename(aEntry->sc d this to the stack ve	ript()).c_str(); ctor at the end of this function _As far as I can	tell that							
vector gets used at an abs	solute minimum by	/ toolkit/components/telemetry	ten, that		It looks to me like we append this to the stack vector at the end of this function. As far as I can tell, that vector end as a should a minimum — but collificremonent cleanertic.					
vector gets used — at an absolute minimum — by toolkit/components/telemetry /Telemetry.cpp:Create/SHangStack, which interprets each element of the vector as a Latin1 string. So I think the index as far a this immediated ends is concerned by the way and to tack down all the										
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