

```
Command . . . . . : CRTBNDRPG
  Issued by . . . . . : MAXJEN
Program . . . . . : ICONVTEST
  Library . . . . . : TEST
Text 'description' . . . . . : *SRCMBRTXT

Source Member . . . . . : ICONVTEST
Source File . . . . . : QRPGLSRC
  Library . . . . . : TEST
  CCSID . . . . . : 277
Text 'description' . . . . . : Test of conversion from CCSID 277 to UTF-8.
Last Change . . . . . : 16-11-10 11:51:04

Generation severity level . . . : 10
Default activation group . . . : *YES
Compiler options . . . . . :
    *XREF          *GEN          *NOSECLVL  *SHOWCPY
    *EXPDDS        *EXT          *NOSHOWSKP *NOSRCSTMT
    *DEBUGIO       *NOEVENTF

Debugging views . . . . . : *LIST
Output . . . . . : *PRINT
Optimization level . . . . . : *NONE
Source listing indentation . . . : *NONE
Type conversion options . . . . : *NONE
Sort sequence . . . . . : *HEX
Language identifier . . . . . : *JOB RUN
Replace program . . . . . : *YES
User profile . . . . . : *USER
Authority . . . . . : *LIBCRTAUT
Truncate numeric . . . . . : *YES
Fix numeric . . . . . : *NONE
Target release . . . . . : *CURRENT
Allow null values . . . . . : *NO
Define condition names . . . . . : *NONE
Enable performance collection . . : *PEP
Profiling data . . . . . : *NOCOL
Licensed Internal Code options . :
Generate program interface . . . : *NO
Include directory . . . . . :
Preprocessor options . . . . . : *NONE
```

Line Number	<----- Source Specifications ----->	<----- Comments ----->	Do Num	Page Line	Change Date	Src Id	Seq Number
....1....+....2....+....3....+....4....+....5....+....6....+....7....+....8....+....9....+....10							

S o u r c e L i s t i n g

```

1 H DFTACTGRP(*NO) ACTGRP(*NEW) BNDDIR('HTTPAPI') DEBUG(*YES)
2
3 D/copy libhttp/qrpglesrc,httpapi_h
*-----*
* RPG member name      . . . . . : HTTPAPI_H                      *
* External name        . . . . . : LIBHTTP/QRPGLESRC(HTTPAPI_H)    *
* Last change          . . . . . : 16-11-10 10:31:07                *
* Text 'description'   . . . . . : HTTP-API header member          *
*-----*
4+/*-
5+ * Copyright (c) 2001-2010 Scott C. Klement                      +
6+ * All rights reserved.                                           +
7+ *
8+ * Redistribution and use in source and binary forms, with or without +
9+ * modification, are permitted provided that the following conditions +
10+ * are met:
11+ * 1. Redistributions of source code must retain the above copyright +
12+ *    notice, this list of conditions and the following disclaimer.   +
13+ * 2. Redistributions in binary form must reproduce the above copyright +
14+ *    notice, this list of conditions and the following disclaimer in the +
15+ *    documentation and/or other materials provided with the distribution. +
16+ *
17+ * THIS SOFTWARE IS PROVIDED BY THE AUTHOR AND CONTRIBUTORS ''AS IS'' AND +
18+ * ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE +
19+ * IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE +
20+ * ARE DISCLAIMED. IN NO EVENT SHALL THE AUTHOR OR CONTRIBUTORS BE LIABLE +
21+ * FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL +
22+ * DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS +
23+ * OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) +
24+ * HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT +
25+ * LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY +
26+ * OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF +
27+ * SUCH DAMAGE.
28+ *
29+ */
30+
31+ /if defined(HTTPAPI_H)
    LINES EXCLUDED: 1
32+ /endif
33+
*-----*

```

Line Number	<----- Source Specifications ----->	<----- Comments ----->	Do Num	Page Line	Change Date	Src Id	Seq Number
	* Compiler Options in Effect:						

	* Text 'description' :						
	* Test of conversion from CCSID 277 to UTF-8.						

	* Generation severity level . . . : 10						
	* Default activation group . . . : *NO						
	* Compiler options :	*XREF *GEN					
		*NOSECLVL *SHOWCPY					
		*EXPDDS *EXT					
		*NOSHOWSKP *NOSRCSTMT					
		*DEBUGIO *NOEVENTF					
	* Optimization level : *NONE						
	* Source listing indentation . . . : *NONE						
	* Type conversion options : *NONE						
	* Sort sequence : *HEX						
	* Language identifier : *JOB RUN						
	* User profile : *USER						
	* Authority : *LIBCRTAUT						
	* Truncate numeric : *YES						
	* Fix numeric : *NONE						
	* Allow null values : *NO						
	* Binding directory from Command . : *NONE						
	* Binding directory from Source . : HTTPAPI						
	* Library : *LIBL						
	* Activation group : *NEW						
	* Enable performance collection . : *PEP						
	* Profiling data : *NOCOL						

34+D	HTTPAPI_VERSION...		000000	1003200
35+D	C	CONST('1.24beta11')	100909	1003300
36+D	HTTPAPI_RELDATE...		000000	1003400
37+D	C	CONST('2010-09-09')	100909	1003500
38+			070628	1003600
39+	/copy LIBHTTP/qrpglesrc,config_h		100106	1003700

	* RPG member name :	CONFIG_H		2
	* External name :	LIBHTTP/QRPGLESRC(CONFIG_H)		2
	* Last change :	16-11-10 10:31:06		2
	* Text 'description' :	HTTP-API compile-time configuration		2

40+***	If you do not want SSL support, comment out the line below.		011020	2000100

Line Number	Source Specifications	Comments	Do Num	Page Line	Change Date	Src Id	Seq Number
41+***	(You _must_ do this if you're running V4R4 or earlier)				011020		2000200
42+					011020		2000300
43+D/undefine	HAVE_SSLAPI				021030		2000400
44+					040303		2000500
45+***	define this if your RPG compiler supports 64-bit integers				040303		2000600
46+***	(they were introduced in V4R4)				040303		2000700
47+***					040303		2000800
48+					040303		2000900
49+D/define	HAVE_INT64				040303		2001000
50+					040303		2001100
51+***	define this if your RPG compiler supports				040303		2001200
52+***	options(*SRCSTMT: *NODEBUGIO: *NOSHOWCPY)				040303		2001300
53+***	(they were introduced in V4R4, but can be enabled as far				040303		2001400
54+***	back as V3R2 using PTFs)				040303		2001500
55+					040303		2001600
56+D/define	HAVE_SRCSTMT_NODEBUGIO				040303		2001700
57+					050622		2001800
58+***	In V4R5 it's possible to enable GSKit for SSL via				050622		2001900
59+***	PTFs. However, some functionality wasn't yet available				050622		2002000
60+***	in that release. Define this if you need SSL to be limited				050622		2002100
61+***	to what's available on a V4R5 system. (This is ignored				050622		2002200
62+***	when SSL is disabled.)				050622		2002300
63+					050622		2002400
64+D/undefine	V4R5_GSKIT				050622		2002500
65+					011020		2002600
66+***	This is the default timeout value (in seconds) that HTTPAPI				011020		2002700
67+***	uses if a timeout value isn't specified by the calling				011020		2002800
68+***	program:				011020		2002900
69+					011020		2003000
70+D HTTP_TIMEOUT	C	CONST(60)			060327		2003100
71+					011020		2003200
72+***	This is the 'User-Agent' name that is reported by this API				011020		2003300
73+***	to the web servers if you don't specify it explicitly when				011020		2003400
74+***	calling the routines.				011020		2003500
75+					011020		2003600
76+D HTTP_USERAGENT	C	CONST('http-api/1.24')			081007		2003700
77+					011020		2003800
78+***	This is the 'Content-Type' that is reported by this API				011020		2003900
79+***	to the web servers if you don't specify it explicitly when				011020		2004000
80+***	calling the POST routines. (the GET routines, by default,				011020		2004100
81+***	do not specify a content-type.)				011020		2004200
82+					011020		2004300
83+D HTTP_CONTENTTYPE	C	CONST('text/xml')			031001		2004400
84+					011020		2004500

Line Number	Source Specifications	Comments	Do Num	Page Line	Change Date	Src Id	Seq Number
85+***	The original implementation of HTTPAPI used tables				050623		2004600
86+***	(*TBL objects) to translate from ASCII to EBCDIC. These can				050623		2004700
87+***	be enabled/set by defining the HTTP_USE_TABLES condition,				050623		2004800
88+***	and then setting the table names. They can be overridden				050623		2004900
89+***	at runtime by calling HTTP_setTables().				050623		2005000
90+***					050623		2005100
91+***	In the current implementation, we prefer that you use CCSIDs				050623		2005200
92+***	instead of tables. When HTTP_USE_TABLES is not defined,				050623		2005300
93+***	the HTTP_EBCDIC and HTTP_ASCII constants represent the				050623		2005400
94+***	default CCSIDs for ASCII<-->EBCDIC translation. They can be				050623		2005500
95+***	overridden at runtime by calling HTTP_setCCSIDs()				050623		2005600
96+***					050623		2005700
97+					011020		2005800
98+ /undefine HTTP_USE_TABLES					060923		2005900
99+ /if defined(HTTP_USE_TABLES)					050623		2006000
	LINES EXCLUDED: 2						
100+ /else					050623		2006300
101+D HTTP_EBCDIC C	CONST(0)				050623		2006400
102+D HTTP_ASCII C	CONST(819)				060330		2006500
103+ /endif					050623		2006600
104+					011020		2006700
105+***	This is the codepage or CCSID assigned to downloaded stream				050623		2006800
106+***	files by default. (Note: HTTPAPI does not convert the file				050623		2006900
107+***	to this CCSID, it just assigns this number to the file's				050623		2007000
108+***	attributes.)				050623		2007100
109+***					050623		2007200
110+***	Whether this is treated as a CCSID or a codepage depends on				050623		2007300
111+***	the value of the HTTP USE CCSID condition, below.				050623		2007400
112+***					050623		2007500
113+***	Can be overridden at runtime by calling HTTP_SetFileCCSID()				050623		2007600
114+					011020		2007700
115+D HTTP_CCSID C	CONST(819)				061116		2007800
116+					050623		2007900
117+***	Starting in V5R1, a full CCSID is available in the IFS				050623		2008000
118+***	instead of a codepage. When this is defined, CCSID support				050623		2008100
119+***	will be used instead of codepages				050623		2008200
120+					050623		2008300
121+D/define HTTP_USE_CCSID					050623		2008400
122+					011020		2008500
123+***	This is the file mode used when creating files in the IFS.				011020		2008600
124+***	(Caution: This mode is given in DECIMAL, not octal!)				011020		2008700
125+***	Octal 666 = Decimal 438 (RW-RW-RW-)				011020		2008800
126+***	Octal 644 = Decimal 420 (RW-R--R--)				011020		2008900
127+***	Octal 777 = Decimal 511 (RWXRWXRWX)				011020		2009000

Line Number	<----- Source Specifications ----->	<----- Comments ----->	Do Num	Page Line	Change Date	Src Id	Seq Number
128+***	Octal 755 = Decimal 493 (RWXR-XR-X)				011020		2009100
129+					011020		2009200
130+D	HTTP_IFSMODE C	CONST(511)			011020		2009300
131+					030327		2009400
132+***	HTTPAPI normally uses non-blocking sockets to ensure that				050630		2009500
133+***	the session never "hangs". However, during the connection				050630		2009600
134+***	progress, this can mean that information gets lost.				050630		2009700
135+***					050630		2009800
136+***	Define this to wait until after the connection is established				050630		2009900
137+***	before switching the socket to non-blocking.				050630		2010000
138+D/define	HTTP_BLOCK_ON_CONNECT				050630		2010100
139+					060221		2010200
140+***					060221		2010300
141+***	This determines whether Cookies are turned *ON or *OFF				060221		2010400
142+***	by default.				060507		2010500
143+***					060221		2010600
144+DHTTP_COOKIE_DEFAULT...					060221		2010700
145+D	C	CONST(*ON)			060507		2010800
146+					050630		2010900
147+***	This changes whether debugging is on or off by default.				041103		2011000
148+***	You can override this at runtime by calling the http_debug()				041103		2011100
149+***	procedure.				041103		2011200
150+D/undefine	DEBUG				060323		2011300
151+DHTTP_DEBUG_FILE	s	500A varying			041103		2011400
152+D		inz('/tmp/httpapi_debug.txt')			041103		2011500
153+					070125		2011600
154+***	This changes how memory is allocated. If defined, HTTPAPI				070125		2011700
155+***	will allocate memory in TERASPACE, thus allowing for very				070125		2011800
156+***	large allocations.				070828		2011900
157+D/undefine	USE_TS_MALLOC64				070828		2012000
158+D/undefine	USE_TS_MALLOC64				070828		2012100
159+***	With both turned off (default) up to 16 MB per allocation.				070828		2012200
160+***	WARNING: This is currently experimental!! If you have				070828		2012300
161+***	problems, make sure TERASPACE is undefined.				070828		2012400
162+D/undefine	TERASPACE				070426		2012500
163+D/undefine	USE_TS_MALLOC64				070828		2012600
164+					071218		2012700
165+***	This allows access to V5R3 (or higher) functions in the				071218		2012800
166+***	SSL environment. Only define this if HTTPAPI will be used				071218		2012900
167+***	on V5R3 or later.				071218		2013000
168+D/undefine	V5R3_GSKIT				071218		2013100
169+					000000		1003800
170+	*****				000000		1003900
171+	** procedure prototypes				000000		1004000

Line Number	Source Specifications	Comments	Do Num	Page Line	Change Date	Src Id	Seq Number
172+	*****				000000		1004100
173+					000000		1004200
174+	*+++++				000000		1004300
175+	* http_get(): Retrieve an HTTP document				000000		1004400
176+	* http_url_get(): Retrieve an HTTP document				000000		1004500
177+					000000		1004600
178+	* peURL = url to grab (i.e. http://www.blah.com/dir/file.txt)				000000		1004700
179+	* peFilename = filename in IFS to save response into				000000		1004800
180+	* peTimeout = (optional) give up if no data is received for				000000		1004900
181+	* this many seconds.				000000		1005000
182+	* peModTime = (optional) only get file if it was changed since				000000		1005100
183+	* this timestamp.				000000		1005200
184+	* peContentType = (optional) content type to supply (mainly				000000		1005300
185+	* useful when talking to CGI scripts.) To supply the				000000		1005400
186+	* default value for this parm, you can supply the				000000		1005500
187+	* HTTP_CONTENTTYPE constant.				000000		1005600
188+	* peUserAgent = (optional) This specifies the name & version				000000		1005700
189+	* of your HTTP client to the server. The server uses				000000		1005800
190+	* it for statistics and sometimes to restrict pages				000000		1005900
191+	* so that they're "only for Internet Explorer."				000000		1006000
192+	* peSOAPAction = (optional) string used to specify the action				000000		1006100
193+	* taken by some SOAP applications.				000000		1006200
194+	* - pass *blanks to send an empty SoapAction.				080903		1006300
195+	* - pass *omit (or don't pass the parm at all) if				080903		1006400
196+	* you don't want a SoapAction header to be sent.				080903		1006500
197+					000000		1006600
198+	* Returns -1 = internal error (check HTTP_ERROR)				000000		1006700
199+	* 0 = timeout while receiving data or connecting				000000		1006800
200+	* 1 = file retrieved successfully				000000		1006900
201+	* > 1 = HTTP response code indicating server's error reply				000000		1007000
202+	*+++++				000000		1007100
203+D	http_get PR 10I 0 extproc('HTTP_URL_GET')				000000		1007200
204+D	peURL 32767A varying const options(*varsize)				000000		1007300
205+D	peFilename 32767A varying const options(*varsize)				000000		1007400
206+D	peTimeout 10I 0 value options(*nopass)				000000		1007500
207+	/if defined(HTTP_ORIG_SHORTFIELD)				091030		1007600
	LINES EXCLUDED: 4						
208+	/else				090730		1008100
209+D	peUserAgent 16384A varying const				091030		1008200
210+D	options(*nopass:*omit)				091030		1008300
211+D	peModTime Z const options(*nopass:*omit)				091030		1008400
212+D	peContentType 16384A varying const				091030		1008500
213+D	options(*nopass:*omit)				091030		1008600
214+D	peSOAPAction 16384A varying const				090730		1008700

Line Number	<----- Source Specifications ----->	<----- Comments ----->	Do Num	Page Line	Change Date	Src Id	Seq Number
215+D	options(*nopass:*omit)				090730		1008800
216+ /endif					090730		1008900
217+D http_url_get PR 10I 0					000000		1009000
218+D peURL 32767A	varying const options(*varsize)				000000		1009100
219+D peFilename 32767A	varying const options(*varsize)				000000		1009200
220+D peTimeout 10I 0	value options(*nopass)				000000		1009300
221+ /if defined(HTTP_ORIG_SHORTFIELD)					091030		1009400
LINES EXCLUDED: 4							
222+ /else					090730		1009900
223+D peUserAgent 16384A	varying const				091030		1010000
224+D	options(*nopass:*omit)				091030		1010100
225+D peModTime Z	const options(*nopass:*omit)				091030		1010200
226+D peContentType 16384A	varying const				091030		1010300
227+D	options(*nopass:*omit)				091030		1010400
228+D peSOAPAction 16384A	varying const				090730		1010500
229+D	options(*nopass:*omit)				090730		1010600
230+ /endif					090730		1010700
231+					000000		1010800
232+					000000		1010900
233+ *+++++					000000		1011000
234+ * http_url_post(): Post data to CGI script and get document					000000		1011100
235+ *					000000		1011200
236+ * peURL = url to post to (http://www.blah.com/cgi-bin/etc)					000000		1011300
237+ * pePostData = pointer to data to post to CGI script.					000000		1011400
238+ * pePostDataLen = length of data to post to CGI script.					000000		1011500
239+ * peFileName = Filename in IFS to save response into					000000		1011600
240+ * peTimeout = (optional) give up if no data is received for					000000		1011700
241+ * this many seconds.					000000		1011800
242+ * peUserAgent = (optional) User-Agent string passed to the					000000		1011900
243+ * server. Pass the named constant HTTP_USERAGENT					000000		1012000
244+ * if you want to get the default value.					000000		1012100
245+ * peContentType = (optional) content type to supply (mainly					000000		1012200
246+ * useful when talking to CGI scripts)					000000		1012300
247+ * peSOAPAction = (optional) string used to specify the action					080903		1012400
248+ * taken by some SOAP applications.					080903		1012500
249+ * - pass *blanks to send an empty SoapAction.					080903		1012600
250+ * - pass *omit (or don't pass the parm at all) if					080903		1012700
251+ * you don't want a SoapAction header to be sent.					080903		1012800
252+ *					000000		1012900
253+ * Returns -1 = internal error (check HTTP_ERROR)					000000		1013000
254+ * 0 = timeout while receiving data or connecting					000000		1013100
255+ * 1 = file retrieved successfully					000000		1013200
256+ * > 1 = HTTP response code indicating server's error reply					000000		1013300
257+ *+++++					000000		1013400

Line Number	<----- Source Specifications ----->	<----- Comments ----->	Do Num	Page Line	Change Date	Src Id	Seq Number
258+D	http_post PR 10I 0	EXTPROC('HTTP_URL_POST')			000000		1013500
259+D	peURL 32767A	varying const options(*varsize)			000000		1013600
260+D	pePostData *	value			000000		1013700
261+D	pePostDataLen 10I 0	value			000000		1013800
262+D	peFilename 32767A	varying const options(*varsize)			000000		1013900
263+D	peTimeout 10I 0	value options(*nopass)			000000		1014000
264+	/if defined(HTTP_ORIG_SHORTFIELD)				091030		1014100
	LINES EXCLUDED: 3						
265+	/else				090730		1014500
266+D	peUserAgent 16384A	varying const			091030		1014600
267+D		options(*nopass:*omit)			091030		1014700
268+D	peContentType 16384A	varying const			091030		1014800
269+D		options(*nopass:*omit)			091030		1014900
270+D	peSOAPAction 16384A	varying const			090730		1015000
271+D		options(*nopass:*omit)			090730		1015100
272+	/endif				090730		1015200
273+D	http_url_post PR 10I 0				000000		1015300
274+D	peURL 32767A	varying const options(*varsize)			000000		1015400
275+D	pePostData *	value			000000		1015500
276+D	pePostDataLen 10I 0	value			000000		1015600
277+D	peFilename 32767A	varying const options(*varsize)			000000		1015700
278+D	peTimeout 10I 0	value options(*nopass)			000000		1015800
279+	/if defined(HTTP_ORIG_SHORTFIELD)				091030		1015900
	LINES EXCLUDED: 3						
280+	/else				090730		1016300
281+D	peUserAgent 16384A	varying const			091030		1016400
282+D		options(*nopass:*omit)			091030		1016500
283+D	peContentType 16384A	varying const			091030		1016600
284+D		options(*nopass:*omit)			091030		1016700
285+D	peSOAPAction 16384A	varying const			090730		1016800
286+D		options(*nopass:*omit)			090730		1016900
287+	/endif				090730		1017000
288+					000000		1017100
289+					000000		1017200
290+	*+++++				000000		1017300
291+	* http_url_get_raw(): Retrieve an HTTP document (in raw mode)				000000		1017400
292+	*				000000		1017500
293+	* peURL = url to grab (i.e. http://www.blah.com/dir/file.txt)				000000		1017600
294+	* peFD = FD to pass back to peProc				000000		1017700
295+	* peProc = procedure to call each time data is received.				000000		1017800
296+	* peTimeout = (optional) give up if no data is received for				000000		1017900
297+	* this many seconds.				000000		1018000
298+	* peUserAgent = (optional) User-Agent string passed to the				000000		1018100
299+	* server. Pass the named constant HTTP_USERAGENT				000000		1018200

Line Number	Source Specifications	Change Date	Src Id	Seq Number
300+	* if you want to get the default value.	000000		1018300
301+	* peModTime = (optiona) only get file if it was changed since	000000		1018400
302+	* this timestamp.	000000		1018500
303+	* peContentType = (optional) content type to supply (mainly	000000		1018600
304+	* useful when talking to CGI scripts)	000000		1018700
305+	* peSOAPAction = (optional) string used to specify the action	080903		1018800
306+	* taken by some SOAP applications.	080903		1018900
307+	* - pass *blanks to send an empty SoapAction.	080903		1019000
308+	* - pass *omit (or don't pass the parm at all) if	080903		1019100
309+	* you don't want a SoapAction header to be sent.	080903		1019200
310+	*	000000		1019300
311+	* Returns (same as http_url_get)	000000		1019400
312+	* ++++++	000000		1019500
313+D	http_url_get_raw...	000000		1019600
314+D	PR 10I 0	000000		1019700
315+D	peURL 32767A varying const options(*varsize)	000000		1019800
316+D	peFD 10I 0 value	000000		1019900
317+D	peProc * value procptr	000000		1020000
318+D	peTimeout 10I 0 value options(*nopass)	000000		1020100
319+	/if defined(HTTP_ORIG_SHORTFIELD)	091030		1020200
	LINES EXCLUDED: 4			
320+	/else	090730		1020700
321+D	peUserAgent 16384A varying const	091030		1020800
322+D	options(*nopass:*omit)	091030		1020900
323+D	peModTime Z const options(*nopass:*omit)	091030		1021000
324+D	peContentType 16384A varying const	091030		1021100
325+D	options(*nopass:*omit)	091030		1021200
326+D	peSOAPAction 16384A varying const	090730		1021300
327+D	options(*nopass:*omit)	090730		1021400
328+	/endif	090730		1021500
329+		000000		1021600
330+		000000		1021700
331+	* ++++++	000000		1021800
332+	* http_url_post_raw(): Post data to CGI script and get document	000000		1021900
333+	*	000000		1022000
334+	* peURL = url to post to (http://www.blah.com/cgi-bin/etc)	000000		1022100
335+	* pePostData = pointer to data to post to CGI script.	000000		1022200
336+	* pePostDataLen = length of data to post to CGI script.	000000		1022300
337+	* peFD = FD to pass back to peProc	000000		1022400
338+	* peProc = procedure to call each time data is received.	000000		1022500
339+	* peTimeout = (optional) give up if no data is received for	000000		1022600
340+	* this many seconds.	000000		1022700
341+	* peUserAgent = (optional) User-Agent string passed to the	000000		1022800
342+	* server. Pass the named constant HTTP_USERAGENT	000000		1022900

Line Number	Source Specifications	Comments	Do Num	Page Line	Change Date	Src Id	Seq Number
343+	* if you want to get the default value.				000000		1023000
344+	* peContentType = (optional) content type to supply (mainly				000000		1023100
345+	* useful when talking to CGI scripts)				000000		1023200
346+	* peSOAPAction = (optional) string used to specify the action				080903		1023300
347+	* taken by some SOAP applications.				080903		1023400
348+	* - pass *blanks to send an empty SoapAction.				080903		1023500
349+	* - pass *omit (or don't pass the parm at all) if				080903		1023600
350+	* you don't want a SoapAction header to be sent.				080903		1023700
351+	*				000000		1023800
352+	* Returns (same as http_url_post)				000000		1023900
353+	*+++++				000000		1024000
354+D	http_url_post_raw...				000000		1024100
355+D	PR 10I 0				000000		1024200
356+D	peURL 32767A varying const options(*varsize)				000000		1024300
357+D	pePostData * value				000000		1024400
358+D	pePostDataLen 10I 0 value				000000		1024500
359+D	peFD 10I 0 value				000000		1024600
360+D	peProc * value procptr				000000		1024700
361+D	peTimeout 10I 0 value options(*nopass)				000000		1024800
362+	/if defined(HTTP_ORIG_SHORTFIELD)				091030		1024900
	LINES EXCLUDED: 3						
363+	/endif				090730		1025300
364+D	peUserAgent 16384A varying const				091030		1025400
365+D	options(*nopass:*omit)				091030		1025500
366+D	peContentType 16384A varying const				091030		1025600
367+D	options(*nopass:*omit)				091030		1025700
368+D	peSOAPAction 16384A varying const				090730		1025800
369+D	options(*nopass:*omit)				090730		1025900
370+	/endif				090730		1026000
371+					000000		1026100
372+					000000		1026200
373+	*+++++				000000		1026300
374+	* http_ParseURL(): Parse URL into it's component parts				000000		1026400
375+	*				000000		1026500
376+	* Breaks a uniform resource locator (URL) into it's component				000000		1026600
377+	* pieces for use with the http: or https: protocols. (would also				000000		1026700
378+	* work for FTP with minor tweaks)				000000		1026800
379+	*				000000		1026900
380+	* peURL = URL that needs to be parsed.				000000		1027000
381+	* peService = service name from URL (i.e. http or https)				000000		1027100
382+	* peUserName = user name given, or *blanks				000000		1027200
383+	* pePassword = password given, or *blanks				000000		1027300
384+	* peHost = hostname given in URL. (could be domain name or IP)				000000		1027400
385+	* pePort = port number to connect to, if specified, otherwise 0.				000000		1027500

Line Number	Source Specifications	Comments	Do Num	Page Line	Change Date	Src Id	Seq Number
386+	* pePath = remaining path/request for server.				000000		1027600
387+	*				000000		1027700
388+	* returns -1 upon failure, or 0 upon success				000000		1027800
389+	*+++++				000000		1027900
390+D	http_ParseURL PR 10I 0				000000		1028000
391+D	peURL 256A const				000000		1028100
392+D	peService 32A				000000		1028200
393+D	peUserName 32A				000000		1028300
394+D	pePassword 32A				000000		1028400
395+D	peHost 256A				000000		1028500
396+D	pePort 10I 0				000000		1028600
397+D	pePath 256A				000000		1028700
398+					000000		1028800
399+					000000		1028900
400+	*+++++				000000		1029000
401+	* http_build_sockaddr(): Build a socket address structure for a host				000000		1029100
402+	*				000000		1029200
403+	* peHost = hostname to build sockaddr_in for				000000		1029300
404+	* peService = service name (or port) to build sockaddr_in for				000000		1029400
405+	* peForcePort = numeric port to force entry to, overrides peService				000000		1029500
406+	* peSockAddr = pointer to a location to place a sockaddr_in into.				000000		1029600
407+	* (if *NULL, memory will be allocated, otherwise it will				000000		1029700
408+	* be re-alloc'ed)				000000		1029800
409+	*				000000		1029900
410+	* returns -1 upon failure, 0 upon success				000000		1030000
411+	*+++++				000000		1030100
412+D	http_build_sockaddr...				000000		1030200
413+D	PR 10I 0				000000		1030300
414+D	peHost 256A const				000000		1030400
415+D	peService 32A const				000000		1030500
416+D	peForcePort 10I 0 value				000000		1030600
417+D	peSockAddr *				000000		1030700
418+					000000		1030800
419+	*+++++				000000		1030900
420+	* http_close(): close HTTP connection				000000		1031000
421+	*				000000		1031100
422+	* peSock = socket to close				000000		1031200
423+	* peComm = comm driver opened with http_select_commdriver()				000000		1031300
424+	*				000000		1031400
425+	* returns -1 upon failure, or 0 upon success				000000		1031500
426+	*+++++				000000		1031600
427+D	http_close PR 10I 0				000000		1031700
428+D	peSock 10I 0 value				000000		1031800
429+D	peComm * value				000000		1031900

Line Number	Source Specifications	Comments	Do Num	Page Line	Change Date	Src Id	Seq Number
430+					000000		1032000
431+					000000		1032100
432+	*+++++				000000		1032200
433+	* http_error(): Return the last error that occurred.				000000		1032300
434+	*				000000		1032400
435+	* peErrorNo = (optional) error number that occurred.				000000		1032500
436+	*				000000		1032600
437+	* Returns the human-readable error message.				000000		1032700
438+	*+++++				000000		1032800
439+D	http_error PR 80A				000000		1032900
440+D	peErrorNo 10I 0 options(*nopass:*omit)				000000		1033000
441+					000000		1033100
442+	/if defined(HAVE_SSLAPI) LINES EXCLUDED: 84				000000		1033200
443+	/endif				000000		1041700
444+					000000		1041800
445+					000000		1041900
446+	*+++++				000000		1042000
447+	* http_getauth(): Get HTTP Authentication Information				000000		1042100
448+	*				000000		1042200
449+	* Call this proc after you receive a HTTP_NDAUTH error				000000		1042300
450+	* to determine the authentication credentials that are required				000000		1042400
451+	*				000000		1042500
452+	* The following parms are returned to your program:				000000		1042600
453+	*				000000		1042700
454+	* peBasic = *ON if BASIC auth is allowed				000000		1042800
455+	* peDigest = *ON if MD5 DIGEST auth is allowed				000000		1042900
456+	* peRealm = Auth realm. Present this to the user to identify				000000		1043000
457+	* which password you're looking for. For example				000000		1043100
458+	* if peRealm is "secureserver.com" you might say				000000		1043200
459+	* "enter password for secureserver.com" to user.				000000		1043300
460+	*				000000		1043400
461+	* After getting the userid & password from the user (or database)				000000		1043500
462+	* you'll need to call http_setauth()				000000		1043600
463+	*				000000		1043700
464+	* Returns -1 upon error, or 0 if successful				000000		1043800
465+	*+++++				000000		1043900
466+D	http_getauth PR 10I 0				000000		1044000
467+D	peBasic 1N				000000		1044100
468+D	peDigest 1N				000000		1044200
469+D	peRealm 124A				000000		1044300
470+					000000		1044400
471+					000000		1044500
472+	*+++++				000000		1044600

Line Number	<----- Source Specifications ----->	<----- Comments ----->	Do	Page	Change	Src	Seq
			Num	Line	Date	Id	Number
473+	* http_setauth(): Set HTTP Authentication Information				000000		1044700
474+	*				000000		1044800
475+	* peAuthType = Authentication Type (HTTP_AUTH_BASIC or				000000		1044900
476+	* HTTP_AUTH_MD5_DIGEST)				000000		1045000
477+	* peUsername = UserName to use				000000		1045100
478+	* pePasswd = Password to use				000000		1045200
479+	*				000000		1045300
480+	* Returns -1 upon error, or 0 if successful				000000		1045400
481+	*+++++				000000		1045500
482+D	http_setauth PR 10I 0				000000		1045600
483+D	peAuthType 1A const				000000		1045700
484+D	peUsername 80A const				000000		1045800
485+D	pePasswd 1024A const				000000		1045900
486+					000000		1046000
487+					000000		1046100
488+	*+++++				000000		1046200
489+	* http_setproxy(): Set HTTP Proxy Address				000000		1046300
490+	*				000000		1046400
491+	* peHost = Proxy host name				000000		1046500
492+	* psPort = Proxy port				000000		1046600
493+	*				000000		1046700
494+	* Returns -1 upon error, or 0 if successful				000000		1046800
495+	*+++++				000000		1046900
496+D	http_setproxy PR 10I 0				000000		1047000
497+D	peHost 256A const				000000		1047100
498+D	pePort 10I 0 const				000000		1047200
499+					000000		1047300
500+					000000		1047400
501+	*+++++				000000		1047500
502+	* http_proxy_setauth(): Set HTTP Proxy Authentication Information				000000		1047600
503+	*				000000		1047700
504+	* peAuthType = Authentication Type (HTTP_AUTH_NONE or				000000		1047800
505+	* HTTP_AUTH_BASIC)				000000		1047900
506+	* peUsername = UserName to use				000000		1048000
507+	* pePasswd = Password to use				000000		1048100
508+	*				000000		1048200
509+	* Returns -1 upon error, or 0 if successful				000000		1048300
510+	*+++++				000000		1048400
511+D	http_proxy_setauth...				000000		1048500
512+D	PR 10I 0				000000		1048600
513+D	peAuthType 1A const				000000		1048700
514+D	peUsername 80A const				000000		1048800
515+D	pePasswd 1024A const				000000		1048900
516+					000000		1049000

Line Number	Source Specifications	Comments	Do Num	Page Line	Change Date	Src Id	Seq Number
517+	*****						
518+	http_proxy_getauth():	Get HTTP Proxy Authentication Information			000000		1049100
519+	*****						
520+	Call this proc after you receive a HTTP_PXNDAUTH error				000000		1049200
521+	to determine the authentication credentials that are required				000000		1049300
522+	*****						
523+	The following parms are returned to your program:				000000		1049400
524+	*****						
525+	peBasic = *ON if BASIC auth is allowed				000000		1049500
526+	peRealm = Auth realm. Present this to the user to identify				000000		1049600
527+	which password you're looking for. For example				000000		1049700
528+	if peRealm is "secureproxy.com" you might say				000000		1049800
529+	"enter password for secureproxy.com" to user.				000000		1049900
530+	*****						
531+	After getting the userid & password from the user (or database)				000000		1050000
532+	you'll need to call http_proxy_setauth()				000000		1050100
533+	*****						
534+	Returns -1 upon error, or 0 if successful				000000		1050200
535+	*****						
536+D	http_proxy_getauth...				000000		1050300
537+D	PR	10I 0			000000		1050400
538+D	peBasic	1N			000000		1050500
539+D	peRealm	124A			000000		1050600
540+	*****						
541+	*****						
542+	*****						
543+	http_xproc():	Register a procedure to be called back at			000000		1050700
544+		a given exit point			000000		1050800
545+	*****						
546+	peExitPoint = exit point. Should be one of the constants				000000		1050900
547+	HTTP_POINT_XXX defined in the HTTPAPI_H member				000000		1051000
548+	peProc = address of procedure to call for this				000000		1051100
549+	exit point. (pass *NULL to disable this point)				000000		1051200
550+	peUserData = Pointer to user data. This will be passed				000000		1051300
551+	to your call-back procedure. You can set it to				000000		1051400
552+	*NULL if you don't need/want it.				000000		1051500
553+	*****						
554+	Returns -1 upon error, or 0 if successful				000000		1051600
555+	*****						
556+D	http_xproc	PR	10I 0		000000		1051700
557+D	peExitPoint		10I 0 value		000000		1051800
558+D	peProc		* procptr value		000000		1051900
559+D	peUserData		* value options(*nopass)		000000		1052000
560+	*****						

Line Number	<----- Source Specifications -----><----- Comments ----->	Do Num	Page Line	Change Date	Src Id	Seq Number
561+				000000		1053500
562+	*+++++			000000		1053600
563+	* http_redir_loc(): Retrieve location provided by a redirect			000000		1053700
564+	* request.			000000		1053800
565+	*			000000		1053900
566+	* returns redirect location, or '' if no redirect was given			000000		1054000
567+	*+++++			000000		1054100
568+D	http_redir_loc PR 1024A varying			000000		1054200
569+				000000		1054300
570+	*+++++			000000		1054400
571+	* http_url_encoder_new(): Create a URL encoder.			000000		1054500
572+	*			000000		1054600
573+	* returns an (opaque) pointer to the new encoder			000000		1054700
574+	* or *NULL upon error.			000000		1054800
575+	*			000000		1054900
576+	* WARNING: To free the memory used by this routine, you MUST			000000		1055000
577+	* call http_url_encoder_free() after the data is sent.			000000		1055100
578+	*+++++			000000		1055200
579+D	HTTP_URL_ENCODER...			000000		1055300
580+D	S *			000000		1055400
581+D	http_url_encoder_new...			000000		1055500
582+D	PR like(HTTP_URL_ENCODER)			000000		1055600
583+	/if defined(WEBFORMS) LINES EXCLUDED: 3			070823		1055700
584+	/endif			070823		1056100
585+				000000		1056200
586+				000000		1056300
587+	*+++++			000000		1056400
588+	* http_url_encoder_addvar(): Add a variable to what's stored			000000		1056500
589+	* a URL encoder.			000000		1056600
590+	*			000000		1056700
591+	* peEncoder = pointer to encoder created by the			000000		1056800
592+	* http_url_encoder_new() routine			000000		1056900
593+	* peVariable = variable name to add			000000		1057000
594+	* peData = pointer to data to store in variable			000000		1057100
595+	* peDataSize = size of data to store in variable			000000		1057200
596+	*			000000		1057300
597+	* Returns *ON if successful, *OFF otherwise.			000000		1057400
598+	*+++++			000000		1057500
599+D	http_url_encoder_addvar...			000000		1057600
600+D	PR 1N			000000		1057700
601+D	peEncoder like(HTTP_URL_ENCODER) value			000000		1057800
602+D	peVariable 50A varying value			000000		1057900
603+D	peData * value			000000		1058000

Line Number	<----- Source Specifications ----->	<----- Comments ----->	Do Num	Page Line	Change Date	Src Id	Seq Number
604+D	peDataSize 10I 0 value				000000		1058100
605+ /if	defined(WEBFORMS) LINES EXCLUDED: 6				070823		1058200
606+ /endif					070823		1058900
607+					000000		1059000
608+					000000		1059100
609+ *	*****				000000		1059200
610+ *	http_url_encoder_getptr(): Get a pointer to the encoded				000000		1059300
611+ *	data stored in a URL encoder				000000		1059400
612+ *					000000		1059500
613+ *	peEncoder = (input) pointer to encoder				000000		1059600
614+ *	peData = (output) pointer to encoded data				000000		1059700
615+ *	peSize = (output) size of encoded data				000000		1059800
616+ *	*****				000000		1059900
617+D	http_url_encoder_getptr...				000000		1060000
618+D	PR				000000		1060100
619+D	peEncoder like(HTTP_URL_ENCODER) value				000000		1060200
620+D	peData *				000000		1060300
621+D	peSize 10I 0				000000		1060400
622+ /if	defined(WEBFORMS) LINES EXCLUDED: 5				070823		1060500
623+ /endif					070823		1061100
624+					000000		1061200
625+					000000		1061300
626+ *	*****				000000		1061400
627+ *	http_url_encoder_getstr(): Get encoded data he encoded				000000		1061500
628+ *	data stored in a URL encoder as a string				000000		1061600
629+ *					000000		1061700
630+ *	peEncoder = (input) pointer to encoder				000000		1061800
631+ *					000000		1061900
632+ *	NOTE: This routine is much slower than http_url_encoder_getptr()				000000		1062000
633+ *	and is limited to a 32k return value. It's suitable for				000000		1062100
634+ *	use with data that's added to a URL, such as when				000000		1062200
635+ *	performing a GET request to a web server, but you should				000000		1062300
636+ *	use http_url_encoder_getptr() for POST requests.				000000		1062400
637+ *	*****				000000		1062500
638+D	http_url_encoder_getstr...				000000		1062600
639+D	PR 32767A varying				000000		1062700
640+D	peEncoder like(HTTP_URL_ENCODER) value				000000		1062800
641+ /if	defined(WEBFORMS) LINES EXCLUDED: 4				070823		1062900
642+ /endif					070823		1063400
643+					000000		1063500
644+					000000		1063600

Line Number	Source Specifications	Comments	Do Num	Page Line	Change Date	Src Id	Seq Number
645+	*+++++				000000		1063700
646+	* http_url_encoder_free(): free resources allocated by both				000000		1063800
647+	* http_url_encoder_new() and http_url_encoder_addvar()				000000		1063900
648+	*				000000		1064000
649+	* peEncoder = pointer to encoder to free				000000		1064100
650+	*				000000		1064200
651+	* Returns *ON if successful, *OFF otherwise.				000000		1064300
652+	*				000000		1064400
653+	* WARNING: After calling this, do not use the encoder or				000000		1064500
654+	* data returned by http_url_encoder_getptr() again.				000000		1064600
655+	*+++++				000000		1064700
656+D	http_url_encoder_free...				000000		1064800
657+D	PR 1N				000000		1064900
658+D	peEncoder like(HTTP_URL_ENCODER) value				000000		1065000
659+	/if defined(WEBFORMS) LINES EXCLUDED: 3				070823		1065100
660+	/endif				070823		1065500
661+					000000		1065600
662+	*+++++				000000		1065700
663+	* http_url_encoder_addvar_s(): Simplified (but limited)				000000		1065800
664+	* interface to http_url_encoder_addvar().				000000		1065900
665+	*				000000		1066000
666+	* peEncoder = (input) HTTP_url_encoder object				000000		1066100
667+	* peVariable = (input) variable name to set				000000		1066200
668+	* peValue = (input) value to set variable to				000000		1066300
669+	*				000000		1066400
670+	* Returns *ON if successful, *OFF otherwise				000000		1066500
671+	*+++++				000000		1066600
672+D	http_url_encoder_addvar_s...				000000		1066700
673+D	PR 1N				000000		1066800
674+D	peEncoder like(HTTP_URL_ENCODER) value				000000		1066900
675+D	peVariable 50A varying value				000000		1067000
676+D	peValue 256A varying value				000000		1067100
677+	/if defined(WEBFORMS) LINES EXCLUDED: 5				070823		1067200
678+	/endif				070823		1067800
679+					000000		1067900
680+					000000		1068000
681+	*+++++				000000		1068100
682+	* http_long_ParseURL(): Parse URL into it's component parts				000000		1068200
683+	*				000000		1068300
684+	* Breaks a uniform resource locator (URL) into it's component				000000		1068400
685+	* pieces for use with the http: or https: protocols. (would also				000000		1068500
686+	* work for FTP with minor tweaks)				000000		1068600

Line	Source Specifications	Comments	Do	Page	Change	Src	Seq
Number	1...2...3...4...5...6...7...8...9...10	Num	Line	Date	Id	Number	
687+	*			000000		1068700	
688+	* peURL = URL that needs to be parsed.			000000		1068800	
689+	* peService = service name from URL (i.e. http or https)			000000		1068900	
690+	* peUserName = user name given, or *blanks			000000		1069000	
691+	* pePassword = password given, or *blanks			000000		1069100	
692+	* peHost = hostname given in URL. (could be domain name or IP)			000000		1069200	
693+	* pePort = port number to connect to, if specified, otherwise 0.			000000		1069300	
694+	* pePath = remaining path/request for server.			000000		1069400	
695+	*			000000		1069500	
696+	* returns -1 upon failure, or 0 upon success			000000		1069600	
697+	*+*****+			000000		1069700	
698+d	http_long_ParseURL...			000000		1069800	
699+d	PR 10I 0			000000		1069900	
700+d	peURL 32767A varying const options(*varsize)			000000		1070000	
701+d	peService 32A			000000		1070100	
702+d	peUserName 32A			000000		1070200	
703+d	pePassword 32A			000000		1070300	
704+d	peHost 256A			000000		1070400	
705+d	pePort 10I 0			000000		1070500	
706+d	pePath 32767A varying			000000		1070600	
707+	*			000000		1070700	
708+	*+*****+			000000		1070800	
709+	* http_select_commdriver(): Select & initialize communications			000000		1070900	
710+	* driver.			000000		1071000	
711+	*			000000		1071100	
712+	* peCommType = (input) communications type (http/https)			000000		1071200	
713+	*			000000		1071300	
714+	* Returns pointer to comm driver, or *NULL upon failure			000000		1071400	
715+	*+*****+			000000		1071500	
716+d	http_select_commdriver...			000000		1071600	
717+d	PR *			000000		1071700	
718+d	peCommType 32A const			000000		1071800	
719+	*			000000		1071900	
720+	*			000000		1072000	
721+	*+*****+			000000		1072100	
722+	* http_url_post_raw2(): Post data to CGI script and get document			000000		1072200	
723+	*			000000		1072300	
724+	* peURL = url to post to (http://www.blah.com/cgi-bin/etc)			000000		1072400	
725+	* pePostFD = descriptor number to pass to pePostProc			000000		1072500	
726+	* pePostProc = procedure to call to get POST data.			000000		1072600	
727+	* peDataLen = total length of data that will be sent.			000000		1072700	
728+	* peSaveFD = FD to pass back to peSaveProc			000000		1072800	
729+	* peSaveProc = procedure to call each time data is received.			000000		1072900	
730+	* peTimeout = (optional) give up if no data is received for			000000		1073000	

Line Number	Source Specifications	Comments	Do Num	Page Line	Change Date	Src Id	Seq Number
731+	* this many seconds.				000000		1073100
732+	* peUserAgent = (optional) User-Agent string passed to the				000000		1073200
733+	* server. Pass the named constant HTTP_USERAGENT				000000		1073300
734+	* if you want to get the default value.				000000		1073400
735+	* peContentType = (optional) content type to supply (mainly				000000		1073500
736+	* useful when talking to CGI scripts)				000000		1073600
737+	* peSOAPAction = (optional) string used to specify the action				080903		1073700
738+	* taken by some SOAP applications.				080903		1073800
739+	* - pass *blanks to send an empty SoapAction.				080903		1073900
740+	* - pass *omit (or don't pass the parm at all) if				080903		1074000
741+	* you don't want a SoapAction header to be sent.				080903		1074100
742+					000000		1074200
743+	* Returns -1 upon failure, 0 upon timeout, or an HTTP response code				000000		1074300
744+	*+++++				000000		1074400
745+D	http_url_post_raw2...				000000		1074500
746+D	PR 10I 0				000000		1074600
747+D	peURL 32767A varying const options(*varsize)				000000		1074700
748+D	pePostFD 10I 0 value				000000		1074800
749+D	pePostProc * procptr value				000000		1074900
750+D	peDataLen 10I 0 value				000000		1075000
751+D	peSaveFD 10I 0 value				000000		1075100
752+D	peSaveProc * value procptr				000000		1075200
753+D	peTimeout 10I 0 value options(*nopass)				000000		1075300
754+	/if defined(HTTP_ORIG_SHORTFIELD)				091030		1075400
	LINES EXCLUDED: 3						
755+	/else				090730		1075800
756+D	peUserAgent 16384A varying const				091030		1075900
757+D	options(*nopass:*omit)				091030		1076000
758+D	peContentType 16384A varying const				091030		1076100
759+D	options(*nopass:*omit)				091030		1076200
760+D	peSOAPAction 16384A varying const				090730		1076300
761+D	options(*nopass:*omit)				090730		1076400
762+	/endif				090730		1076500
763+					000000		1076600
764+					000000		1076700
765+	*+++++				000000		1076800
766+	* http_url_post_stmf(): Post data to CGI script from stream file				000000		1076900
767+	*				000000		1077000
768+	* peURL = url to post to (http://www.blah.com/cgi-bin/etc)				000000		1077100
769+	* pePostFile = Filename (in IFS) of file to send to http server				000000		1077200
770+	* peRecvFile = Filename (in IFS) of stream file containing reply				000000		1077300
771+	* peTimeout = (optional) give up if no data is received for				000000		1077400
772+	* this many seconds.				000000		1077500
773+	* peUserAgent = (optional) User-Agent string passed to the				000000		1077600

Line Number	Source Specifications	Comments	Do Num	Page Line	Change Date	Src Id	Seq Number
774+	* server. Pass the named constant HTTP_USERAGENT				000000		1077700
775+	* if you want to get the default value.				000000		1077800
776+	* peContentType = (optional) content type to supply (mainly				000000		1077900
777+	* useful when talking to CGI scripts)				000000		1078000
778+	* peSOAPAction = (optional) string used to specify the action				080903		1078100
779+	* taken by some SOAP applications.				080903		1078200
780+	* - pass *blanks to send an empty SoapAction.				080903		1078300
781+	* - pass *omit (or don't pass the parm at all) if				080903		1078400
782+	* you don't want a SoapAction header to be sent.				080903		1078500
783+					000000		1078600
784+	* Returns -1 upon failure, 0 upon timeout,				000000		1078700
785+	* 1 for success, or an HTTP response code				000000		1078800
786+	*+++++				000000		1078900
787+D	http_url_post_stmf...				000000		1079000
788+D	PR 10I 0				000000		1079100
789+D	peURL 32767A varying const options(*varsize)				000000		1079200
790+D	pePostFile 32767A varying const options(*varsize)				000000		1079300
791+D	peRecvFile 32767A varying const options(*varsize)				000000		1079400
792+D	peTimeout 10I 0 value options(*nopass)				000000		1079500
793+	/if defined(HTTP_ORIG_SHORTFIELD)				091030		1079600
	LINES EXCLUDED: 3						
794+	/else				090730		1080000
795+D	peUserAgent 16384A varying const				091030		1080100
796+D	options(*nopass:*omit)				091030		1080200
797+D	peContentType 16384A varying const				091030		1080300
798+D	options(*nopass:*omit)				091030		1080400
799+D	peSOAPAction 16384A varying const				090730		1080500
800+D	options(*nopass:*omit)				090730		1080600
801+	/endif				090730		1080700
802+D	http_post_stmf PR 10I 0 extproc('HTTP_URL_POST_STMF')				000000		1080800
803+D	peURL 32767A varying const options(*varsize)				000000		1080900
804+D	pePostFile 32767A varying const options(*varsize)				000000		1081000
805+D	peRecvFile 32767A varying const options(*varsize)				000000		1081100
806+D	peTimeout 10I 0 value options(*nopass)				000000		1081200
807+	/if defined(HTTP_ORIG_SHORTFIELD)				091030		1081300
	LINES EXCLUDED: 3						
808+	/else				090730		1081700
809+D	peUserAgent 16384A varying const				091030		1081800
810+D	options(*nopass:*omit)				091030		1081900
811+D	peContentType 16384A varying const				091030		1082000
812+D	options(*nopass:*omit)				091030		1082100
813+D	peSOAPAction 16384A varying const				090730		1082200
814+D	options(*nopass:*omit)				090730		1082300
815+	/endif				090730		1082400

Line Number	Source Specifications	Comments	Do Num	Page Line	Change Date	Src Id	Seq Number
816+					000000		1082500
817+					000000		1082600
818+	*+++++				000000		1082700
819+	* http_get_xml();				000000		1082800
820+	* http_url_get_xml(): Send a GET request to an HTTP server and				000000		1082900
821+	receive/parse an XML response.				000000		1083000
822+	*				000000		1083100
823+	peURL = (input) URL to perform GET request to				000000		1083200
824+	* peStartProc = (input) call-back procedure to call at the start				000000		1083300
825+	of each XML element received.				000000		1083400
826+	peEndProc = (input) call-back procedure to call at the end				000000		1083500
827+	of each XML element received.				000000		1083600
828+	peUsrDta = (input) user-defined data that will be passed to the				000000		1083700
829+	call-back routine				000000		1083800
830+	*				000000		1083900
831+	(other parms are identical to those in HTTP_url_get())				000000		1084000
832+	*				000000		1084100
833+	peStartProc should point to a procedure with a procedure				000000		1084200
834+	interface that's compatable with the following:				000000		1084300
835+	*				000000		1084400
836+	D StartProc PR				000000		1084500
837+	D userdata *	value			000000		1084600
838+	D depth 10I 0	value			000000		1084700
839+	D name 1024A	varying const			000000		1084800
840+	D path 24576A	varying const			000000		1084900
841+	D attrs *	dim(32767)			000000		1085000
842+	D	const options(*varsize)			000000		1085100
843+	*				000000		1085200
844+	peEndProc should point to a procedure with a procedure				000000		1085300
845+	interface that's compatable with the following:				000000		1085400
846+	*				000000		1085500
847+	D EndProc PR				000000		1085600
848+	D userdata *	value			000000		1085700
849+	D depth 10I 0	value			000000		1085800
850+	D name 1024A	varying const			000000		1085900
851+	D path 24576A	varying const			000000		1086000
852+	D value 32767A	varying const			000000		1086100
853+	D attrs *	dim(32767)			000000		1086200
854+	D	const options(*varsize)			000000		1086300
855+	*				000000		1086400
856+	Returns 1 if successful, -1 upon error, 0 if timeout				000000		1086500
857+	*+++++				000000		1086600
858+D	http_get_xml...				000000		1086700
859+D	PR 10I 0	EXTPROC('HTTP_URL_GET_XML')			000000		1086800

Line Number	Source Specifications	Comments	Do Num	Page Line	Change Date	Src Id	Seq Number
860+D	peURL 32767A	varying const options(*varsize)			000000		1086900
861+D	peStartProc *	value procptr			000000		1087000
862+D	peEndProc *	value procptr			000000		1087100
863+D	peUsrDta *	value			000000		1087200
864+D	peTimeout 10I 0	value options(*nopass)			000000		1087300
865+	/if defined(HTTP_ORIG_SHORTFIELD)				091030		1087400
	LINES EXCLUDED: 4						
866+	/else				090730		1087900
867+D	peUserAgent 16384A	varying const			091030		1088000
868+D		options(*nopass:*omit)			091030		1088100
869+D	peModTime Z	const options(*nopass:*omit)			091030		1088200
870+D	peContentType 16384A	varying const			091030		1088300
871+D		options(*nopass:*omit)			091030		1088400
872+D	peSOAPAction 16384A	varying const			090730		1088500
873+D		options(*nopass:*omit)			090730		1088600
874+	/endif				090730		1088700
875+D	http_url_get_xml...				000000		1088800
876+D	PR 10I 0				000000		1088900
877+D	peURL 32767A	varying const options(*varsize)			000000		1089000
878+D	peStartProc *	value procptr			000000		1089100
879+D	peEndProc *	value procptr			000000		1089200
880+D	peUsrDta *	value			000000		1089300
881+D	peTimeout 10I 0	value options(*nopass)			000000		1089400
882+	/if defined(HTTP_ORIG_SHORTFIELD)				091030		1089500
	LINES EXCLUDED: 4						
883+	/else				090730		1090000
884+D	peUserAgent 16384A	varying const			091030		1090100
885+D		options(*nopass:*omit)			091030		1090200
886+D	peModTime Z	const options(*nopass:*omit)			091030		1090300
887+D	peContentType 16384A	varying const			091030		1090400
888+D		options(*nopass:*omit)			091030		1090500
889+D	peSOAPAction 16384A	varying const			090730		1090600
890+D		options(*nopass:*omit)			090730		1090700
891+	/endif				090730		1090800
892+					000000		1090900
893+	*+++++				000000		1091000
894+	* http_get_xmltf(): Request URL from server. Receive response				000000		1091100
895+	* to temporary file, then parse it.				000000		1091200
896+	*				000000		1091300
897+	* peURL = (input) URL to perform GET request to				000000		1091400
898+	* peStartProc = (input) call-back procedure to call at the start				000000		1091500
899+	* of each XML element received.				000000		1091600
900+	* peEndProc = (input) call-back procedure to call at the end				000000		1091700
901+	* of each XML element received.				000000		1091800

Line Number	Source Specifications	Comments	Do Num	Page Line	Change Date	Src Id	Seq Number
902+	* peUsrDta = (input) user-defined data that will be passed to the				000000		1091900
903+	* call-back routine				000000		1092000
904+	*				000000		1092100
905+	* (other parms are identical to those in HTTP_url_get())				000000		1092200
906+	*				000000		1092300
907+	* Returns 1 if successful, -1 upon error, 0 if timeout				000000		1092400
908+	*+++++				000000		1092500
909+D	http_get_xmltf...				000000		1092600
910+D	PR 10I 0				000000		1092700
911+D	peURL 32767A varying const options(*varsize)				000000		1092800
912+D	peStartProc *	value procptr			000000		1092900
913+D	peEndProc *	value procptr			000000		1093000
914+D	peUsrDta *	value			000000		1093100
915+D	peTimeout 10I 0 value options(*nopass)				000000		1093200
916+	/if defined(HTTP_ORIG_SHORTFIELD)				091030		1093300
	LINES EXCLUDED: 4						
917+	/else				090730		1093800
918+D	peUserAgent 16384A varying const				091030		1093900
919+D	options(*nopass:*omit)				091030		1094000
920+D	peModTime Z const options(*nopass:*omit)				091030		1094100
921+D	peContentType 16384A varying const				091030		1094200
922+D	options(*nopass:*omit)				091030		1094300
923+D	peSOAPAction 16384A varying const				090730		1094400
924+D	options(*nopass:*omit)				090730		1094500
925+	/endif				090730		1094600
926+					000000		1094700
927+					000000		1094800
928+	*+++++				000000		1094900
929+	* http_post_xml();				000000		1095000
930+	* http_url_post_xml(): Send a POST request to an HTTP server and				000000		1095100
931+	* receive/parse an XML response.				000000		1095200
932+	*				000000		1095300
933+	* peURL = (input) URL to perform GET request to				000000		1095400
934+	* pePostData = (input) data to POST to the web server				000000		1095500
935+	* pePostDataLen = (input) length of pePostData				000000		1095600
936+	* peStartProc = (input) call-back procedure to call at the start				000000		1095700
937+	* of each XML element received.				000000		1095800
938+	* peEndProc = (input) call-back procedure to call at the end				000000		1095900
939+	* of each XML element received.				000000		1096000
940+	* peUsrDta = (input) user-defined data that will be passed				000000		1096100
941+	* to the call-back routine				000000		1096200
942+	*				000000		1096300
943+	* (other parms are identical to those in HTTP_url_post())				000000		1096400
944+	*				000000		1096500

Line Number	Source Specifications	Comments	Do Num	Page Line	Change Date	Src Id	Seq Number
945+	* peStartProc should point to a procedure with a procedure				000000		1096600
946+	* interface that's compatable with the following:				000000		1096700
947+					000000		1096800
948+	* D StartProc PR				000000		1096900
949+	* D userdata	* value			000000		1097000
950+	* D depth	10I 0 value			000000		1097100
951+	* D name	1024A varying const			000000		1097200
952+	* D path	24576A varying const			000000		1097300
953+	* D attrs	* dim(32767)			000000		1097400
954+	* D	const options(*varsize)			000000		1097500
955+					000000		1097600
956+	* peEndProc should point to a procedure with a procedure				000000		1097700
957+	* interface that's compatable with the following:				000000		1097800
958+					000000		1097900
959+	* D EndProc PR				000000		1098000
960+	* D userdata	* value			000000		1098100
961+	* D depth	10I 0 value			000000		1098200
962+	* D name	1024A varying const			000000		1098300
963+	* D path	24576A varying const			000000		1098400
964+	* D value	32767A varying const			000000		1098500
965+	* D attrs	* dim(32767)			000000		1098600
966+	* D	const options(*varsize)			000000		1098700
967+					000000		1098800
968+	* Returns 1 if successful, -1 upon error, 0 if timeout				000000		1098900
969+	*+++++				000000		1099000
970+	D http_post_xml...				000000		1099100
971+	D PR	10I 0 EXTPROC('HTTP_URL_POST_XML')			000000		1099200
972+	D peURL	32767A varying const options(*varsize)		1	070724		1099300
973+	D pePostData	* value		2	070724		1099400
974+	D pePostDataLen	10I 0 value		3	070724		1099500
975+	D peStartProc	* value procptr		4	070724		1099600
976+	D peEndProc	* value procptr		5	070724		1099700
977+	D peUsrDta	* value		6	070724		1099800
978+	D peTimeout	10I 0 value options(*nopass)		7	070724		1099900
979+	/if defined(HTTP_ORIG_SHORTFIELD)				091030		1100000
	LINES EXCLUDED: 3						
980+	/else				090730		1100400
981+	D peUserAgent	16384A varying const		8	091030		1100500
982+	D	options(*nopass:*omit)			091030		1100600
983+	D peContentType	16384A varying const		9	091030		1100700
984+	D	options(*nopass:*omit)			091030		1100800
985+	D peSOAPAction	16384A varying const			090730		1100900
986+	D	options(*nopass:*omit)			090730		1101000
987+	/endif				090730		1101100

Line Number	Source Specifications	Comments	Do Num	Page Line	Change Date	Src Id	Seq Number
988+D	http_url_post_xml...				000000		1101200
989+D	PR				000000		1101300
990+D	peURL	32767A varying const options(*varsize)			000000		1101400
991+D	pePostData	* value			000000		1101500
992+D	pePostDataLen	10I 0 value			000000		1101600
993+D	peStartProc	* value procptr			000000		1101700
994+D	peEndProc	* value procptr			000000		1101800
995+D	peUsrDta	* value			000000		1101900
996+D	peTimeout	10I 0 value options(*nopass)			000000		1102000
997+	/if defined(HTTP_ORIG_SHORTFIELD)				091030		1102100
	LINES EXCLUDED: 3						
998+	/else				090730		1102500
999+D	peUserAgent	16384A varying const			091030		1102600
1000+D		options(*nopass:*omit)			091030		1102700
1001+D	peContentType	16384A varying const			091030		1102800
1002+D		options(*nopass:*omit)			091030		1102900
1003+D	peSOAPAction	16384A varying const			090730		1103000
1004+D		options(*nopass:*omit)			090730		1103100
1005+	/endif				090730		1103200
1006+					000000		1103300
1007+					000000		1103400
1008+	*+++++				000000		1103500
1009+	* http_post_xmltf(): Post data from memory. Receive				000000		1103600
1010+	* response to temporary file, then parse it.				000000		1103700
1011+	*				000000		1103800
1012+	* peURL = (input) URL to perform GET request to				000000		1103900
1013+	* pePostData = (input) data to POST to the web server				000000		1104000
1014+	* pePostDataLen = (input) length of pePostData				000000		1104100
1015+	* peStartProc = (input) call-back procedure to call at the start				000000		1104200
1016+	* of each XML element received.				000000		1104300
1017+	* peEndProc = (input) call-back procedure to call at the end				000000		1104400
1018+	* of each XML element received.				000000		1104500
1019+	* peUsrDta = (input) user-defined data that will be passed				000000		1104600
1020+	* to the call-back routine				000000		1104700
1021+	*				000000		1104800
1022+	* (other parms are identical to those in HTTP_url_post())				000000		1104900
1023+	*				000000		1105000
1024+	* Returns 1 if successful, -1 upon error, 0 if timeout				000000		1105100
1025+	*+++++				000000		1105200
1026+D	http_post_xmltf...				000000		1105300
1027+D	PR	10I 0			000000		1105400
1028+D	peURL	32767A varying const options(*varsize)			000000		1105500
1029+D	pePostData	* value			000000		1105600
1030+D	pePostDataLen	10I 0 value			000000		1105700

Line Number	Source Specifications	Comments	Do Num	Page Line	Change Date	Src Id	Seq Number
1031+D	peStartProc	* value procptr			000000		1105800
1032+D	peEndProc	* value procptr			000000		1105900
1033+D	peUsrDta	* value			000000		1106000
1034+D	peTimeout	10I 0 value options(*nopass)			000000		1106100
1035+	/if defined(HTTP_ORIG_SHORTFIELD)				091030		1106200
	LINES EXCLUDED: 3						
1036+	/else				090730		1106600
1037+D	peUserAgent	16384A varying const			091030		1106700
1038+D		options(*nopass:*omit)			091030		1106800
1039+D	peContentType	16384A varying const			091030		1106900
1040+D		options(*nopass:*omit)			091030		1107000
1041+D	peSOAPAction	16384A varying const			090730		1107100
1042+D		options(*nopass:*omit)			090730		1107200
1043+	/endif				090730		1107300
1044+					000000		1107400
1045+					000000		1107500
1046+	*+++++				000000		1107600
1047+	* http_post_stmf_xml();				000000		1107700
1048+	* http_url_post_stmf_xml(): Post data to CGI script from stream file				000000		1107800
1049+	* and receive/parse an XML response				000000		1107900
1050+	*				000000		1108000
1051+	* peURL = (input) URL to post to				000000		1108100
1052+	* pePostFile = (input) File of stream file (in IFS) to post				000000		1108200
1053+	* peStartProc = (input) call-back procedure to call at the start				000000		1108300
1054+	* of each XML element received.				000000		1108400
1055+	* peEndProc = (input) call-back procedure to call at the end				000000		1108500
1056+	* of each XML element received.				000000		1108600
1057+	* peUsrDta = (input) user-defined data that will be passed				000000		1108700
1058+	* to the call-back routine				000000		1108800
1059+	* peTimeout = (optional) give up if no data is received for				000000		1108900
1060+	* this many seconds.				000000		1109000
1061+	* peUserAgent = (optional) User-Agent string passed to the				000000		1109100
1062+	* server. Pass the named constant HTTP_USERAGENT				000000		1109200
1063+	* if you want to get the default value.				000000		1109300
1064+	* peContentType = (optional) content type to supply (mainly				000000		1109400
1065+	* useful when talking to CGI scripts)				000000		1109500
1066+	* peSOAPAction = (optional) string used to specify the action				080903		1109600
1067+	* taken by some SOAP applications.				080903		1109700
1068+	* - pass *blanks to send an empty SoapAction.				080903		1109800
1069+	* - pass *omit (or don't pass the parm at all) if				080903		1109900
1070+	* you don't want a SoapAction header to be sent.				080903		1110000
1071+	*				000000		1110100
1072+	* Returns -1 upon failure, 0 upon timeout,				000000		1110200
1073+	* 1 for success, or an HTTP response code				000000		1110300

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1074+	*****						
1075+D	http_post_stmf_xml...				000000		1110400
1076+D	PR				000000		1110500
1077+D	peURL	10I 0 extproc('HTTP_URL_POST_STMF_XML')			000000		1110600
1078+D	pePostFile	32767A varying const options(*varsize)			000000		1110700
1079+D	peStartProc	32767A varying const options(*varsize)			000000		1110800
1080+D	peEndProc	* value procptr			000000		1110900
1081+D	peUsrDta	* value procptr			000000		1111000
1082+D	peTimeout	* value			000000		1111100
1083+ /if	defined(HTTP_ORIG_SHORTFIELD)	10I 0 value options(*nopass)			000000		1111200
	LINES EXCLUDED: 3				091030		1111300
1084+ /else					090730		1111700
1085+D	peUserAgent	16384A varying const			091030		1111800
1086+D		options(*nopass:*omit)			091030		1111900
1087+D	peContentType	16384A varying const			091030		1112000
1088+D		options(*nopass:*omit)			091030		1112100
1089+D	peSOAPAction	16384A varying const			090730		1112200
1090+D		options(*nopass:*omit)			090730		1112300
1091+ /endif					090730		1112400
1092+D	http_url_post_stmf_xml...				000000		1112500
1093+D	PR	10I 0			000000		1112600
1094+D	peURL	32767A varying const options(*varsize)			000000		1112700
1095+D	pePostFile	32767A varying const options(*varsize)			000000		1112800
1096+D	peStartProc	* value procptr			000000		1112900
1097+D	peEndProc	* value procptr			000000		1113000
1098+D	peUsrDta	* value			000000		1113100
1099+D	peTimeout	10I 0 value options(*nopass)			000000		1113200
1100+ /if	defined(HTTP_ORIG_SHORTFIELD)				091030		1113300
	LINES EXCLUDED: 3						
1101+ /else					090730		1113700
1102+D	peUserAgent	16384A varying const			091030		1113800
1103+D		options(*nopass:*omit)			091030		1113900
1104+D	peContentType	16384A varying const			091030		1114000
1105+D		options(*nopass:*omit)			091030		1114100
1106+D	peSOAPAction	16384A varying const			090730		1114200
1107+D		options(*nopass:*omit)			090730		1114300
1108+ /endif					090730		1114400
1109+					000000		1114500
1110+					000000		1114600
1111+	*****						
1112+	* http_post_stmf_xmltf(): Post data from stream file. Receive				000000		1114700
1113+	* response to temporary file, then parse it.				000000		1114800
1114+	*				000000		1114900
1115+	* peURL = (input) URL to post to				000000		1115000

Line Number	Source Specifications	Comments	Do Num	Page Line	Change Date	Src Id	Seq Number
1116+	* pePostFile = (input) File of stream file (in IFS) to post				000000		1115200
1117+	* peStartProc = (input) call-back procedure to call at the start				000000		1115300
1118+	* of each XML element received.				000000		1115400
1119+	* peEndProc = (input) call-back procedure to call at the end				000000		1115500
1120+	* of each XML element received.				000000		1115600
1121+	* peUsrDta = (input) user-defined data that will be passed				000000		1115700
1122+	* to the call-back routine				000000		1115800
1123+	* peTimeout = (optional) give up if no data is received for				000000		1115900
1124+	* this many seconds.				000000		1116000
1125+	* peContentType = (optional) content type to supply (mainly				000000		1116100
1126+	* useful when talking to CGI scripts)				000000		1116200
1127+	* peSOAPAction = (optional) string used to specify the action				080903		1116300
1128+	* taken by some SOAP applications.				080903		1116400
1129+	* - pass *blanks to send an empty SoapAction.				080903		1116500
1130+	* - pass *omit (or don't pass the parm at all) if				080903		1116600
1131+	* you don't want a SoapAction header to be sent.				080903		1116700
1132+	*				000000		1116800
1133+	* Returns -1 upon failure, 0 upon timeout,				000000		1116900
1134+	* 1 for success, or an HTTP response code				000000		1117000
1135+	*+++++				000000		1117100
1136+D	http_post_stmf_xmltf...				000000		1117200
1137+D	PR 10I 0				000000		1117300
1138+D	peURL 32767A varying const options(*varsize)				000000		1117400
1139+D	pePostFile 32767A varying const options(*varsize)				000000		1117500
1140+D	peStartProc * value procptr				000000		1117600
1141+D	peEndProc * value procptr				000000		1117700
1142+D	peUsrDta * value				000000		1117800
1143+D	peTimeout 10I 0 value options(*nopass)				000000		1117900
1144+	/if defined(HTTP_ORIG_SHORTFIELD)				091030		1118000
	LINES EXCLUDED: 3						
1145+	/else				090730		1118400
1146+D	peUserAgent 16384A varying const				091030		1118500
1147+D	options(*nopass:*omit)				091030		1118600
1148+D	peContentType 16384A varying const				091030		1118700
1149+D	options(*nopass:*omit)				091030		1118800
1150+D	peSOAPAction 16384A varying const				090730		1118900
1151+D	options(*nopass:*omit)				090730		1119000
1152+	/endif				090730		1119100
1153+					000000		1119200
1154+					000000		1119300
1155+	*+++++				000000		1119400
1156+	* http_persist_open(): Open a persistent HTTP session				000000		1119500
1157+	*				000000		1119600
1158+	* peURL = url to connect to				000000		1119700

Line Number	Source Specifications	Comments	Do Num	Page Line	Change Date	Src Id	Seq Number
1159+	* peTimeout = (optional) give up if no data is received for				000000		1119800
1160+	* this many seconds.				000000		1119900
1161+	* Returns *NULL upon failure, or				000000		1120000
1162+	* pointer to HTTP communication session				000000		1120100
1163+	* http_persist_open...				000000		1120200
1164+	* PR				000000		1120300
1165+	* peURL 32767A varying const options(*varsize)				000000		1120400
1166+	* peTimeout 10I 0 value options(*nopass)				000000		1120500
1167+	* peURL				000000		1120600
1168+	* peTimeout				000000		1120700
1169+	* peComm = (input) pointer to persistent HTTP comm session				000000		1120800
1170+	* peURL = (input) URL to get from persistent HTTP				000000		1120900
1171+	* peFD = (input) FD to pass back to peProc				000000		1121000
1172+	* peProc = (input) procedure to call each time data is received.				000000		1121100
1173+	* peTimeout = (input/optional) time-out when no data is received for this many seconds.				000000		1121200
1174+	* peUserAgent = (optional) User-Agent string passed to the server. Pass the named constant called HTTP_USERAGENT if you want to get the default value.				000000		1121300
1175+	* peModTime = (input/optional) only get file if it was changed since this timestamp.				000000		1121400
1176+	* peContentType = (input/optional) content type to supply (mainly useful when talking to CGI scripts)				000000		1121500
1177+	* peSOAPAction = (optional) string used to specify the action taken by some SOAP applications.				000000		1121600
1178+	* - pass *blanks to send an empty SoapAction.				000000		1121700
1179+	* - pass *omit (or don't pass the parm at all) if you don't want a SoapAction header to be sent.				000000		1121800
1180+	* Returns 1 if successful,				000000		1121900
1181+	* 0 if timed out				000000		1122000
1182+	* -1 if an internal error occurs				000000		1122100
1183+	* or an HTTP response code if an error comes from the server				000000		1122200
1184+	* http_persist_get...				000000		1122300
1185+	* PR				000000		1122400
1186+	* peComm				000000		1122500
1187+	* peURL				000000		1122600
1188+	* peFD				000000		1122700
1189+	* peProc				080903		1122800
1190+	* peTimeout				080903		1122900
1191+	* peUserAgent				080903		1123000
1192+	* peModTime				080903		1123100
1193+	* peContentType				080903		1123200
1194+	* peSOAPAction				000000		1123300
1195+	* Returns				000000		1123400
1196+	* 1 if successful,				000000		1123500
1197+	* 0 if timed out				000000		1123600
1198+	* -1 if an internal error occurs				000000		1123700
1199+	* or an HTTP response code if an error comes from the server				000000		1123800
1200+	* http_persist_get...				000000		1123900
1201+	* PR				000000		1124000
1202+	* peComm				000000		1124100

Line Number	Source Specifications	Comments	Do Num	Page Line	Change Date	Src Id	Seq Number
1203+D	peURL	32767A varying const options(*varsize)			000000		1124200
1204+D	peFD	10I 0 value			000000		1124300
1205+D	peProc	* value procptr			000000		1124400
1206+D	peTimeout	10I 0 value options(*nopass)			000000		1124500
1207+	/if defined(HTTP_ORIG_SHORTFIELD)				091030		1124600
	LINES EXCLUDED: 4						
1208+	/else				090730		1125100
1209+D	peUserAgent	16384A varying const			091030		1125200
1210+D		options(*nopass:*omit)			091030		1125300
1211+D	peModTime	Z const options(*nopass:*omit)			091030		1125400
1212+D	peContentType	16384A varying const			091030		1125500
1213+D		options(*nopass:*omit)			091030		1125600
1214+D	peSOAPAction	16384A varying const			090730		1125700
1215+D		options(*nopass:*omit)			090730		1125800
1216+	/endif				090730		1125900
1217+					000000		1126000
1218+					000000		1126100
1219+	*+++++				000000		1126200
1220+	* http_persist_post(): Post data to CGI script and get document				000000		1126300
1221+	* using a persistent connection				000000		1126400
1222+	*				000000		1126500
1223+	* peComm = (input) pointer to persistent HTTP comm session				000000		1126600
1224+	* peURL = (input) URL to post to with persistent HTTP				000000		1126700
1225+	* -----				000000		1126800
1226+	* pePostFD = (input) Opaque integer to pass to pePostProc				000000		1126900
1227+	* pePostProc = (input) Pointer to call-back procedure for				000000		1127000
1228+	* posting data to server. If you pass				000000		1127100
1229+	* *NULL for this, you should use pePostData				000000		1127200
1230+	* instead.				000000		1127300
1231+	* -- or --				000000		1127400
1232+	* pePostData = (input) Pointer to data to post. If you pass				000000		1127500
1233+	* *NULL for this, you should use pePostProc				000000		1127600
1234+	* instead.				000000		1127700
1235+	* -----				000000		1127800
1236+	* pePostDataLen = (input) Total length, in bytes, of post data.				000000		1127900
1237+	* peSaveFD = (input) Opaque integer passed to peSaveProc				000000		1128000
1238+	* peSaveProc = (input) Pointer to call-back procedure that is				000000		1128100
1239+	* called when data is received from HTTP				000000		1128200
1240+	* server.				000000		1128300
1241+	* peTimeout = (input/optional) time-out when no data is received				000000		1128400
1242+	* for this many seconds.				000000		1128500
1243+	* peUserAgent = (optional) User-Agent string passed to the				000000		1128600
1244+	* server. Pass the named constant called				000000		1128700
1245+	* HTTP_USERAGENT if you want to get the				000000		1128800

Line Number	Source Specifications	Comments	Do Num	Page Line	Change Date	Src Id	Seq Number
1246+	* default value.				000000		1128900
1247+	* peContentType = (input/optional) content type to supply (mainly				000000		1129000
1248+	* useful when talking to CGI scripts)				000000		1129100
1249+	* peSOAPAction = (optional) string used to specify the action				080903		1129200
1250+	* taken by some SOAP applications.				080903		1129300
1251+	* - pass *blanks to send an empty SoapAction.				080903		1129400
1252+	* - pass *omit (or don't pass the parm at all) if				080903		1129500
1253+	* you don't want a SoapAction header to be sent.				080903		1129600
1254+	*				000000		1129700
1255+	* Returns 1 if successful,				000000		1129800
1256+	* 0 if timed out				000000		1129900
1257+	* -1 if an internal error occurs				000000		1130000
1258+	* or an HTTP response code if an error comes from the server				000000		1130100
1259+	*+++++				000000		1130200
1260+D	http_persist_post...				000000		1130300
1261+D	PR 10I 0				000000		1130400
1262+D	peComm * value				000000		1130500
1263+D	peURL 32767A varying const options(*varsize)				000000		1130600
1264+D	pePostFD 10I 0 value				000000		1130700
1265+D	pePostProc * value procptr				000000		1130800
1266+D	pePostData * value				000000		1130900
1267+D	pePostDataLen 10I 0 value				000000		1131000
1268+D	peSaveFD 10I 0 value				000000		1131100
1269+D	peSaveProc * value procptr				000000		1131200
1270+D	peTimeout 10I 0 value options(*nopass)				000000		1131300
1271+	/if defined(HTTP_ORIG_SHORTFIELD)				091030		1131400
	LINES EXCLUDED: 3						
1272+	/else				090730		1131800
1273+D	peUserAgent 16384A varying const				091030		1131900
1274+D	options(*nopass:*omit)				091030		1132000
1275+D	peContentType 16384A varying const				091030		1132100
1276+D	options(*nopass:*omit)				091030		1132200
1277+D	peSOAPAction 16384A varying const				090730		1132300
1278+D	options(*nopass:*omit)				090730		1132400
1279+	/endif				090730		1132500
1280+					000000		1132600
1281+					000000		1132700
1282+	*+++++				000000		1132800
1283+	* http_persist_close(): End a persistent HTTP session				000000		1132900
1284+	*				000000		1133000
1285+	* peComm = (input) pointer to persistent HTTP comm session				000000		1133100
1286+	*				000000		1133200
1287+	* returns 0 if successful, -1 otherwise				000000		1133300
1288+	*+++++				000000		1133400

Line Number	<----- Source Specifications ----->	<----- Comments ----->	Do Num	Page Line	Change Date	Src Id	Seq Number
1289+D	http_persist_close...				000000		1133500
1290+D	PR 10I 0				000000		1133600
1291+D	peComm * value				000000		1133700
1292+					000000		1133800
1293+					000000		1133900
1294+	*+++++				000000		1134000
1295+	* http_mfd_encoder_open(): Create a multipart/form-data encoder				000000		1134100
1296+	*				000000		1134200
1297+	* A multipart/form-data encoder will encode the variables				000000		1134300
1298+	* and or stream files that you pass to it and store the results				000000		1134400
1299+	* in a stream file. You can later POST those results with the				000000		1134500
1300+	* http_url_post_stmf() API.				000000		1134600
1301+	*				000000		1134700
1302+	* peStmFile = (input) pathname to stream file to store				000000		1134800
1303+	* encoded results.				000000		1134900
1304+	*				000000		1135000
1305+	* returns an (opaque) pointer to the new encoder				000000		1135100
1306+	* or *NULL upon error.				000000		1135200
1307+	*				000000		1135300
1308+	* WARNING: To free the memory used by this routine and close				000000		1135400
1309+	* the stream file, you MUST call http_mfd_encoder_close()				000000		1135500
1310+	* after the data is sent.				000000		1135600
1311+	*+++++				000000		1135700
1312+D	http_mfd_encoder_open...				000000		1135800
1313+D	PR *				000000		1135900
1314+D	peStmFile * value options(*string)				100106		1136000
1315+D	peContType 64A				000000		1136100
1316+					000000		1136200
1317+					000000		1136300
1318+	*+++++				000000		1136400
1319+	* http_mfd_encoder_addvar(): Add a variable to what's stored				000000		1136500
1320+	* a multipart/form-data encoder.				000000		1136600
1321+	*				000000		1136700
1322+	* peEncoder = pointer to encoder created by the				000000		1136800
1323+	* http_mfd_encoder_open() routine				000000		1136900
1324+	* peVariable = variable name to add				000000		1137000
1325+	* peData = pointer to data to store in variable				000000		1137100
1326+	* peDataSize = size of data to store in variable				000000		1137200
1327+	*				000000		1137300
1328+	* Returns *ON if successful, *OFF otherwise.				000000		1137400
1329+	*+++++				000000		1137500
1330+D	http_mfd_encoder_addvar...				000000		1137600
1331+D	PR 1N				000000		1137700
1332+D	peEncoder * value				000000		1137800

Line	Source Specifications	Do	Page	Change	Src	Seq
Number	.....1.....2.....3.....4.....5.....6.....7.....8.....9.....10	Num	Line	Date	Id	Number
1333+D	peVariable	50A	varying value	000000		1137900
1334+D	peData	*	value	000000		1138000
1335+D	peDataSize	10I 0	value	000000		1138100
1336+				000000		1138200
1337+				000000		1138300
1338+	*+++++			000000		1138400
1339+	* http_mfd_encoder_addvar_s(): Simplified (but limited)			000000		1138500
1340+	* interface to http_mfd_encoder_addvar().			000000		1138600
1341+	*			000000		1138700
1342+	* peEncoder = (input) HTTP_mfd_encoder object			000000		1138800
1343+	* peVariable = (input) variable name to set			000000		1138900
1344+	* peValue = (input) value to set variable to			000000		1139000
1345+	*			000000		1139100
1346+	* Returns *ON if successful, *OFF otherwise			000000		1139200
1347+	*+++++			000000		1139300
1348+D	http_mfd_encoder_addvar_s...			000000		1139400
1349+D	PR	1N		000000		1139500
1350+D	peEncoder	*	value	000000		1139600
1351+D	peVariable	50A	varying value	000000		1139700
1352+D	peValue	256A	varying value	000000		1139800
1353+				000000		1139900
1354+				000000		1140000
1355+	*+++++			000000		1140100
1356+	* http_mfd_encoder_addstmf(): Add a stream file to what's stored			000000		1140200
1357+	* in a multipart/form-data encoder.			000000		1140300
1358+	*			000000		1140400
1359+	* peEncoder = pointer to encoder created by the			000000		1140500
1360+	* http_mfd_encoder_open() routine			000000		1140600
1361+	* peVariable = variable name to add			000000		1140700
1362+	* pePathName = Path name of stream file to add			000000		1140800
1363+	* peContType = Content-type of stream file to add			000000		1140900
1364+	*			000000		1141000
1365+	* Returns *ON if successful, *OFF otherwise.			000000		1141100
1366+	*+++++			000000		1141200
1367+D	http_mfd_encoder_addstmf...			000000		1141300
1368+D	PR	1N		000000		1141400
1369+D	peEncoder	*	value	000000		1141500
1370+D	peVariable	50A	varying value	000000		1141600
1371+D	pePathName	*	value options(*string)	100106		1141700
1372+D	peContType	64A	varying const	000000		1141800
1373+				000000		1141900
1374+				000000		1142000
1375+	*+++++			000000		1142100
1376+	* http_mfd_encoder_close(): close an open multipart/form-data			000000		1142200

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1377+	* encoder.				000000		1142300
1378+	* peEncoder = (input) encoder to close				000000		1142400
1379+	* http_mfd_encoder_close...				000000		1142500
1380+	* PR				000000		1142600
1381+	* value				000000		1142700
1382+					000000		1142800
1383+					000000		1142900
1384+					000000		1143000
1385+					000000		1143100
1386+	* http_debug(): Turn debugging info *ON or *OFF				000000		1143200
1387+	* peStatus = (input) status (either *ON or *OFF)				000000		1143300
1388+	* peFilename = (input/optional) filename that debug info will be				000000		1143400
1389+	* written to. If not defined, the value from				000000		1143500
1390+	* CONFIG_H is used.				000000		1143600
1391+	* http_debug PR				000000		1143700
1392+	* peStatus 1N const				000000		1143800
1393+	* peFilename 500A varying const options(*nopass)				000000		1143900
1394+					000000		1144000
1395+					000000		1144100
1396+					000000		1144200
1397+					000000		1144300
1398+					000000		1144400
1399+					000000		1144500
1400+	* HTTP_SetCCSIDs(): Set the CCSIDs used for ASCII/EBCDIC				000000		1144600
1401+	* translation				000000		1144700
1402+					000000		1144800
1403+					000000		1144900
1404+	* pePostRem = (input) Remote CCSID of POST data				000000		1145000
1405+	* pePostLoc = (input) Local CCSID of POST data				000000		1145100
1406+	* peProtRem = (input) Remote CCSID of Protocol data				000000		1145200
1407+	* peProtLoc = (input) Local CCSID of Protocol data				000000		1145300
1408+					000000		1145400
1409+	* Returns 0 if successful, -1 otherwise				000000		1145500
1410+	* HTTP_SetCCSIDs PR 10I 0				000000		1145600
1411+	* pePostRem 10I 0 value				000000		1145700
1412+	* pePostLoc 10I 0 value				000000		1145800
1413+	* peProtRem 10I 0 value options(*nopass)				000000		1145900
1414+	* peProtLoc 10I 0 value options(*nopass)				000000		1146000
1415+					000000		1146100
1416+					000000		1146200
1417+					000000		1146300
1418+	* HTTP_SetTables(): Set the translation tables used for				000000		1146400
1419+	* ASCII/EBCDIC translation				000000		1146500
1420+					000000		1146600

Line Number	Source Specifications	Comments	Do Num	Page Line	Change Date	Src Id	Seq Number
1421+	*				000000		1146700
1422+	* peASCII = (input) Table for converting to ASCII				000000		1146800
1423+	* peEBCDIC = (input) Table for converting to EBCDIC				000000		1146900
1424+	*				000000		1147000
1425+	* Returns 0 if successful, -1 otherwise				000000		1147100
1426+	*****				000000		1147200
1427+D	HTTP_SetTables PR 10I 0				000000		1147300
1428+D	peASCII 10A const				000000		1147400
1429+D	peEBCDIC 10A const				000000		1147500
1430+	*				000000		1147600
1431+	*				000000		1147700
1432+	*****				000000		1147800
1433+	* HTTP_SetFileCCSID(): Set the CCSID that downloaded stream				000000		1147900
1434+	* files get tagged with				000000		1148000
1435+	*				000000		1148100
1436+	* peCCSID = (input) New CCSID to assign				000000		1148200
1437+	*				000000		1148300
1438+	* NOTE: HTTPAPI does not do *any* translation of downloaded				000000		1148400
1439+	* data. It only sets this number as part of the file's				000000		1148500
1440+	* attributes. You can change it with the CHGATR CL				000000		1148600
1441+	* command.				000000		1148700
1442+	*				000000		1148800
1443+	* NOTE: The IFS did not support CCSIDs in V4R5 and earlier.				000000		1148900
1444+	* On those releases, this API will be used to set the				000000		1149000
1445+	* codepage rather than the CCSID.				000000		1149100
1446+	*				000000		1149200
1447+	* Returns 0 if successful, -1 otherwise				000000		1149300
1448+	*****				000000		1149400
1449+D	HTTP_SetfileCCSID...				000000		1149500
1450+D	PR				000000		1149600
1451+D	peCCSID 10I 0 value				000000		1149700
1452+	*				000000		1149800
1453+	*				000000		1149900
1454+	*****				000000		1150000
1455+	* HTTP_xlate(): Translate data from ASCII <--> EBCDIC				000000		1150100
1456+	*				000000		1150200
1457+	* peSize = (input) Size of data to translate				000000		1150300
1458+	* peData = (input) Data				000000		1150400
1459+	* peDirection = (input) can be set to the TO_ASCII or				000000		1150500
1460+	* TO_EBCDIC constant.				000000		1150600
1461+	*				000000		1150700
1462+	* Returns 0 if successful, -1 upon failure				000000		1150800
1463+	*****				000000		1150900
1464+D	HTTP_xlate PR 10I 0				000000		1151000

Line Number	Source Specifications	Comments	Do Num	Page Line	Change Date	Src Id	Seq Number
1465+D	peSize 10I 0 value				000000		1151100
1466+D	peData 32766A options(*varsize)				000000		1151200
1467+D	peDirection 1A const				000000		1151300
1468+					000000		1151400
1469+					000000		1151500
1470+	*****						
1471+ *	HTTP_xlatep(): Translate data from ASCII <--> EBCDIC						
1472+ *	(using a pointer instead of a variable)						
1473+ *					000000		1151800
1474+ *	peSize = (input) Size of data to translate				000000		1151900
1475+ *	peData = (input) Data				000000		1152000
1476+ *	peDirection = (input) can be set to the TO_ASCII or				000000		1152100
1477+ *	TO_EBCDIC constant.				000000		1152200
1478+ *					000000		1152300
1479+ *	Returns 0 if successful, -1 upon failure				000000		1152400
1480+	*****						
1481+D	HTTP_xlatep PR 10I 0				000000		1152500
1482+D	peSize 10I 0 value				000000		1152600
1483+D	peData * value				000000		1152700
1484+D	peDirection 1A const				000000		1152800
1485+					000000		1152900
1486+					000000		1153000
1487+	*****						
1488+ *	HTTP_xlatedyn: Translate data from ASCII <--> EBCDIC						
1489+ *	using a dynamically sized output buffer						
1490+ *					000000		1153100
1491+ *	peSize = (input) size of data to translate				000000		1153200
1492+ *	peData = (input) pointer to data to translate				000000		1153300
1493+ *	peDirection = (input) TO_ASCII or TO_EBCDIC				000000		1153400
1494+ *	peOutput = (output) address of newly allocated memory				000000		1153500
1495+ *					000000		1153600
1496+ *	returns the length of the translated data or -1 upon failure				000000		1153700
1497+	*****						
1498+D	HTTP_xlatedyn PR 10I 0				000000		1153800
1499+D	peSize 10I 0 value				000000		1153900
1500+D	peData * value				000000		1154000
1501+D	peDirection 1A const				000000		1154100
1502+D	peOutput *				000000		1154200
1503+					000000		1154300
1504+					000000		1154400
1505+	*****						
1506+ *	http_set_100_timeout(): Set value for 100-continue timeouts.						
1507+ *					000000		1154500
1508+ *	HTTP's POST/PUT operations have a feature to let you detect						
					090630		1154600

Line Number	<----- Source Specifications -----><----- Comments ----->	Do Num	Page Line	Change Date	Src Id	Seq Number
1509+	* where your request URI is valid prior to uploading a document			090630		1155500
1510+	* body (such as POST data or a file upload).			090630		1155600
1511+	*			090630		1155700
1512+	* HTTPAPI can send "Expect: 100-continue" and the server should			090630		1155800
1513+	* reply with status 100 to indicate that the upload should proceed			090630		1155900
1514+	* or else provide an error message if the upload should not proceed.			090630		1156000
1515+	*			090630		1156100
1516+	* Despite being a part of the HTTP/1.1 protocol standard, many			090630		1156200
1517+	* servers do not implement this properly.			090630		1156300
1518+	*			090630		1156400
1519+	* Therefore:			090630		1156500
1520+	* a) You may set the timeout to 0. HTTPAPI will not attempt			090630		1156600
1521+	* to use the 100-continue feature.			090630		1156700
1522+	* b) You may set the timeout to a low value, so that HTTPAPI			090630		1156800
1523+	* will use the feature if possible, but will time			090630		1156900
1524+	* quickly if the feature isn't implemented			090630		1157000
1525+	* c) You may set the timeout to a higher value if you want			090630		1157100
1526+	* to ensure that HTTPAPI always waits for it before			090630		1157200
1527+	* sending an upload.			090630		1157300
1528+	*			090630		1157400
1529+	* The timeout value is expressed in seconds, and may range			090630		1157500
1530+	* from 0.001 (1 millisecond) to 9999999.999 (approx 116 days)			090630		1157600
1531+	* or 0 = don't wait at all.			090630		1157700
1532+	*+++++			000000		1157800
1533+D	http_set_100_timeout...			000000		1157900
1534+D	PR			000000		1158000
1535+D	peTimeout 10P 3 value			000000		1158100
1536+				000000		1158200
1537+				000000		1158300
1538+	*+++++			000000		1158400
1539+	* HTTP_xml_SetCCSIDs(): Set the CCSIDs used for ASCII/EBCDIC			000000		1158500
1540+	* translation for XML documents			000000		1158600
1541+	*			000000		1158700
1542+	* peRemote = (input) remote CCSID			000000		1158800
1543+	* peLocal = (input) local CCSID (can be 0 if you want			000000		1158900
1544+	* to use the CCSID of the current job)			000000		1159000
1545+	*			000000		1159100
1546+	* Returns 0 if successful, -1 otherwise			000000		1159200
1547+	*+++++			000000		1159300
1548+D	HTTP_xml_SetCCSIDs...			000000		1159400
1549+D	PR 10I 0			000000		1159500
1550+D	peRemote 10I 0 value			000000		1159600
1551+D	peLocal 10I 0 value			000000		1159700
1552+				000000		1159800

Line Number	Source Specifications	Comments	Do Num	Page Line	Change Date	Src Id	Seq Number
1553+					000000		1159900
1554+	*****						
1555+	* http_parse_xml_stmf(): Parse XML data directly from a stream file				000000		1160000
1556+	* (instead of downloading it from a server)				000000		1160100
1557+					000000		1160200
1558+	* peFile = (input) Stream file (in IFS) to read data from				000000		1160300
1559+	* peCCSID = (input) CCSID of stream file,				000000		1160400
1560+	* or HTTP_XML_CALC to attempt to calculate it				000000		1160500
1561+	* from the XML encoding				000000		1160600
1562+	* or HTTP_STMF_CALC to use the stream file's				000000		1160700
1563+	* CCSID attribute.				000000		1160800
1564+	* peStartProc = (input) call-back procedure to call at the start				000000		1160900
1565+	* of each XML element received.				000000		1161000
1566+	* peEndProc = (input) call-back procedure to call at the end				000000		1161100
1567+	* of each XML element received.				000000		1161200
1568+	* peUsrDta = (input) user-defined data that will be passed				000000		1161300
1569+	* to the call-back routine				000000		1161400
1570+					000000		1161500
1571+	* Returns -1 upon failure, 0 if successful				000000		1161600
1572+	*****						
1573+D	http_parse_xml_stmf...				000000		1161700
1574+D	PR 10I 0				000000		1161800
1575+D	peFile 32767A varying const options(*varsize)				000000		1161900
1576+D	peCCSID 10I 0 value				000000		1162000
1577+D	peStartProc * value procptr				000000		1162100
1578+D	peEndProc * value procptr				000000		1162200
1579+D	peUsrDta * value				000000		1162300
1580+					000000		1162400
1581+D	HTTP_XML_CALC C -1				000000		1162500
1582+D	HTTP_STMF_CALC C -2				000000		1162600
1583+					000000		1162700
1584+					000000		1162800
1585+	*****						
1586+	* http_header(): retrieve the value of an HTTP header				000000		1162900
1587+					000000		1163000
1588+	* name = (input) name of header to look for				000000		1163100
1589+	* pos = (input/optional) position of header if there's				000000		1163200
1590+	* more than one with the same name				000000		1163300
1591+					000000		1163400
1592+	* returns the value of the HTTP header, or '' if not found				000000		1163500
1593+	*****						
1594+D	http_header PR 32500A varying				000000		1163600
1595+D	name 256A varying const				000000		1163700
1596+D	pos 10I 0 value options(*nopass)				000000		1163800

Line Number	Source Specifications	Comments	Do Num	Page Line	Change Date	Src Id	Seq Number
1597+					000000		1164300
1598+					000000		1164400
1599+	*+++++				000000		1164500
1600+	* http_use_cookies(): Turns on/off HTTPAPI's cookie parsing and				000000		1164600
1601+	* caching routines.				000000		1164700
1602+	*				000000		1164800
1603+	* peSetting = (input) *ON = HTTPAPI will read and send cookies				000000		1164900
1604+	* *OFF = HTTPAPI will ignore cookies				000000		1165000
1605+	* (has no affect on cookies supplied				000000		1165100
1606+	* via an exit procedure)				000000		1165200
1607+	*+++++				000000		1165300
1608+D	http_use_cookies...				000000		1165400
1609+D	PR				000000		1165500
1610+D	peSetting 1N const				000000		1165600
1611+					000000		1165700
1612+					000000		1165800
1613+	*+++++				000000		1165900
1614+	* http_cookie_file(): Set the name of the file that HTTPAPI				000000		1166000
1615+	* will use to store cookies.				000000		1166100
1616+	*				000000		1166200
1617+	* peFilename = (input) Filename (IFS path) to store cookie				000000		1166300
1618+	* data into.				000000		1166400
1619+	* peSession = (input) include session cookies (temp cookies)				081014		1166500
1620+	* in cookie file? Default = *OFF				081014		1166600
1621+	*				000000		1166700
1622+	* If the filename is set to '', or if you do not call this API,				000000		1166800
1623+	* cookies will only be saved until the activation group is				000000		1166900
1624+	* reclaimed.				000000		1167000
1625+	*+++++				000000		1167100
1626+D	http_cookie_file...				000000		1167200
1627+D	PR				000000		1167300
1628+D	peFilename 256A varying const				000000		1167400
1629+D	peSession 1n const options(*nopass:*omit)				081014		1167500
1630+					000000		1167600
1631+					000000		1167700
1632+	*+++++				000000		1167800
1633+	* http_comp(): Send a completion message				080707		1167900
1634+	*				000000		1168000
1635+	* peMessage = message to send.				000000		1168100
1636+	*+++++				000000		1168200
1637+D	http_comp PR				000000		1168300
1638+D	peMessage 256A const				000000		1168400
1639+					000000		1168500
1640+					000000		1168600

Line	<----- Source Specifications ----->	<----- Comments ----->	Do	Page	Change	Src	Seq
Number	....1....+....2....+....3....+....4....+....5....+....6....+....7....+....8....+....9....+....10		Num	Line	Date	Id	Number
1641+	*+++++				000000		1168700
1642+	* http_diag(): Send a diagnostic message				000000		1168800
1643+	*				000000		1168900
1644+	* peMessage = message to send.				000000		1169000
1645+	*+++++				000000		1169100
1646+D	http_diag PR				000000		1169200
1647+D	peMessage 256A const				000000		1169300
1648+					000000		1169400
1649+					000000		1169500
1650+	*+++++				000000		1169600
1651+	* http_crash(): Send back an *ESCAPE message containing last				000000		1169700
1652+	* error found in HTTPAPI.				000000		1169800
1653+	*+++++				000000		1169900
1654+D	http_crash PR				000000		1170000
1655+					000000		1170100
1656+					000000		1170200
1657+	*+++++				000000		1170300
1658+	* http_tempfile(): Generate a unique temporary IFS file name				000000		1170400
1659+	*				000000		1170500
1660+	* returns the file name				000000		1170600
1661+	*+++++				000000		1170700
1662+D	http_tempfile PR 40A varying				000000		1170800
1663+					070329		1170900
1664+					070329		1171000
1665+	*+++++ +				070329		1171100
1666+	* http_xmlns(): Enable XML Namespace processing				070329		1171200
1667+	*				070329		1171300
1668+	* peEnable = (input) *ON to enable parsing, *OFF to disable.				070329		1171400
1669+	* (it is disabled by default)				070329		1171500
1670+	*+++++ +				070329		1171600
1671+D	http_xmlns PR				070329		1171700
1672+D	peEnable 1N const				070329		1171800
1673+					070816		1171900
1674+					070816		1172000
1675+	*+++++ +				070816		1172100
1676+	* http_XmlReturnPtr(): XML End Element Handler should return a				070816		1172200
1677+	* pointer to the full element value instead of				070816		1172300
1678+	* returning a VARYING character string.				070816		1172400
1679+	* (VARYING is limited to 64k)				070816		1172500
1680+	*				070816		1172600
1681+	* peEnable = (input) *ON to return a pointer, *OFF to return				070816		1172700
1682+	* a VARYING string (*OFF = default)				070816		1172800
1683+	*+++++ +				070816		1172900
1684+D	http_XmlReturnPtr...				070816		1173000

Line Number	Source Specifications	Comments	Do Num	Page Line	Change Date	Src Id	Seq Number
1685+D	PR				070816		1173100
1686+D	peEnable 1N const				070816		1173200
1687+					070912		1173300
1688+					070912		1173400
1689+ *	*****				070912		1173500
1690+ *	http_XmlStripCRLF(): Enable stripping of CRLF characters				070912		1173600
1691+ *					070912		1173700
1692+ *	peEnable = (input) *ON to strip, *OFF to leave them in.				070912		1173800
1693+ *	(they are stripped by default)				070912		1173900
1694+ *					070912		1174000
1695+ *	Note: To simplify your XML string manipulations, HTTPAPI				070912		1174100
1696+ *	strips CRLF characters from the response. If you would				070912		1174200
1697+ *	prefer that they are left in the response, call this				070912		1174300
1698+ *	routine with a parameter of *OFF.				070912		1174400
1699+ *	*****				070912		1174500
1700+D	http_XmlStripCRLF...				070912		1174600
1701+D	PR				070912		1174700
1702+D	peEnable 1N const				070912		1174800
1703+					071119		1174900
1704+					071119		1175000
1705+ *	*****				071119		1175100
1706+ *	http_parser_switch_cb(): delegates element processing to another				071119		1175200
1707+ *	set of start and end element callback procedures for the				071119		1175300
1708+ *	current element and its children.				071119		1175400
1709+ *					071119		1175500
1710+ *	peUsrDta = (input) user-defined data that will be passed to				071119		1175600
1711+ *	the call-back routine. usuallay only that				071119		1175700
1712+ *	portion of the curent user data is forwarded				071119		1175800
1713+ *	to the new callback procedures that they are				071119		1175900
1714+ *	responsible for.				071119		1176000
1715+ *	peStartProc = (input) call-back procedure to call at the start				071119		1176100
1716+ *	of each XML element received.				071119		1176200
1717+ *	peEndProc = (input) call-back procedure to call at the end				071119		1176300
1718+ *	of each XML element received.				071119		1176400
1719+ *					071119		1176500
1720+ *	Returns -1 upon failure, 0 upon success				071119		1176600
1721+ *	*****				071119		1176700
1722+D	http_parser_switch_cb...				071119		1176800
1723+D	PR 10I 0				071119		1176900
1724+D	peUsrDta * value				071119		1177000
1725+D	peStartProc * value procptr				071119		1177100
1726+D	peEndProc * value procptr options(*nopass)				071119		1177200
1727+					080205		1177300
1728+					080205		1177400

Line Number	Source Specifications	Comments	Do Num	Page Line	Change Date	Src Id	Seq Number
1729+	*****				080205		1177500
1730+	* http_parser_get_start_cb(): returns the procedure pointer of				080205		1177600
1731+	* the currently active start callback procedure.				080205		1177700
1732+	*				080205		1177800
1733+	* Returns procedure pointer of start callback procedure.				080205		1177900
1734+	*****				080205		1178000
1735+D	http_parser_get_start_cb...				080205		1178100
1736+D	PR * procptr				080205		1178200
1737+					080205		1178300
1738+	*****				080205		1178400
1739+	* http_parser_get_end_cb(): returns the procedure pointer of				080205		1178500
1740+	* the currently active end callback procedure.				080205		1178600
1741+	*				080205		1178700
1742+	* Returns procedure pointer of end callback procedure.				080205		1178800
1743+	*****				080205		1178900
1744+D	http_parser_get_end_cb...				080205		1179000
1745+D	PR * procptr				080205		1179100
1746+					080205		1179200
1747+	*****				080205		1179300
1748+	* http_parser_get_userdata(): returns the procedure pointer of				080205		1179400
1749+	* the currently active user data.				080205		1179500
1750+	*				080205		1179600
1751+	* Returns procedure pointer of user data.				080205		1179700
1752+	*****				080205		1179800
1753+D	http_parser_get_userdata...				080205		1179900
1754+D	PR *				080205		1180000
1755+					080331		1180100
1756+					080331		1180200
1757+	***** +				080331		1180300
1758+	* http_parse_xml_string(): Parse XML from an input string.				080331		1180400
1759+	* (instead of downloading it from a server)				080331		1180500
1760+	*				080331		1180600
1761+	* peString = (input) Pointer to string				080331		1180700
1762+	* peLen = (input) Length of string to parse				080331		1180800
1763+	* peCCSID = (input) CCSID of string to be parsed				080331		1180900
1764+	* peStartProc = (input) call-back procedure to call at the start				080331		1181000
1765+	* of each XML element received.				080331		1181100
1766+	* peEndProc = (input) call-back procedure to call at the end				080331		1181200
1767+	* of each XML element received.				080331		1181300
1768+	* peUsrDta = (input) user-defined data that will be passed				080331		1181400
1769+	* to the call-back routine				080331		1181500
1770+	*				080331		1181600
1771+	* Returns -1 upon failure, 0 upon success				080331		1181700
1772+	*****				080331		1181800

Line Number	<----- Source Specifications ----->	<----- Comments ----->	Do Num	Page Line	Change Date	Src Id	Seq Number
1773+D	http_parse_xml_string...				080331		1181900
1774+D	PR 10i 0				080331		1182000
1775+D	peString * value				080331		1182100
1776+D	peLen 10I 0 value				080331		1182200
1777+D	peCCSID 10I 0 value				080331		1182300
1778+D	peStartProc * value procptr				080331		1182400
1779+D	peEndProc * value procptr				080331		1182500
1780+D	peUsrDta * value				080331		1182600
1781+					081125		1182700
1782+					081125		1182800
1783+	*+*****				081125		1182900
1784+	* HTTP_nextXmlAttr(): Retrieve next XML attribute from attrs list				081125		1183000
1785+	*				081125		1183100
1786+	* attrs = (input) attribute list to extract from				081125		1183200
1787+	* num = (i/o) position in attribute list. On first				081125		1183300
1788+	* call, set this to 1. HTTPAPI will				081125		1183400
1789+	* increment this as it moves through the list				081125		1183500
1790+	* name = (output) XML attribute name (from list)				081125		1183600
1791+	* val = (output) XML attribute value (from list)				081125		1183700
1792+	*				081125		1183800
1793+	* Returns *ON normally, *OFF if there's no more attributes to read				081125		1183900
1794+	*+*****				081125		1184000
1795+D	HTTP_nextXmlAttr...				081125		1184100
1796+D	PR 1N				081125		1184200
1797+D	attrs * dim(32767)				081125		1184300
1798+D		const options(*varsize)			081125		1184400
1799+D	num 10i 0				081125		1184500
1800+D	name 1024a	varying			081125		1184600
1801+D	val 65535a	varying			081125		1184700
1802+					090528		1184800
1803+					090528		1184900
1804+	*+*****				090528		1185000
1805+	* http_EscapeXml(): Escape any special characters used by XML				090528		1185100
1806+	*				090528		1185200
1807+	* peString = (input) string to escape				090528		1185300
1808+	*				090528		1185400
1809+	* Returns escaped string.				090528		1185500
1810+	*+*****				090528		1185600
1811+D	http_EscapeXml PR 4096a	varying			090528		1185700
1812+D	peString 4096a	varying const			090528		1185800
1813+					090624		1185900
1814+					090624		1186000
1815+	/if defined(HTTP_WSDL2RPG_STUFF)				091007		1186100
	LINES EXCLUDED: 32						

Line Number	<----- Source Specifications ----->	<----- Comments ----->	Do Num	Page Line	Change Date	Src Id	Seq Number
1816+	/endif				091007		1189400
1817+					100528		1189500
1818+					100528		1189600
1819+	*+++++				100528		1189700
1820+	* http_dwrite(): Write raw (binary) data to the HTTPAPI debug				100528		1189800
1821+	log.				100528		1189900
1822+	*				100528		1190000
1823+	peData = pointer to raw data to write				100528		1190100
1824+	peLen = length of the data to write				100528		1190200
1825+	*				100528		1190300
1826+	* NOTE: The debug log is opened the first time http_dwrite()				100528		1190400
1827+	or http_dmsg() is called, and closed at the end of a				100528		1190500
1828+	an HTTP transaction (such as GET or POST) If you attempt				100528		1190600
1829+	to write after a transaction, the file will be re-opened				100528		1190700
1830+	and not closed until the next transaction, or until				100528		1190800
1831+	http_dclose() is called.				100528		1190900
1832+	*+++++				100528		1191000
1833+D	http_dwrite PR				100528		1191100
1834+D	peData * value				100528		1191200
1835+D	peLen 10I 0 value				100528		1191300
1836+					100528		1191400
1837+					100528		1191500
1838+	*+++++				100528		1191600
1839+	* http_dmsg(): Write one line of text to the HTTPAPI debug log				100528		1191700
1840+	*				100528		1191800
1841+	peMsgTxt = one message (one line of text) to write to				100528		1191900
1842+	the debug log. CRLF will be added for you				100528		1192000
1843+	and the data will be undergo EBCDIC->ASCII				100528		1192100
1844+	translation as it's written.				100528		1192200
1845+	*				100528		1192300
1846+	* NOTE: The debug log is opened the first time http_dwrite()				100528		1192400
1847+	or http_dmsg() is called, and closed at the end of a				100528		1192500
1848+	an HTTP transaction (such as GET or POST) If you attempt				100528		1192600
1849+	to write after a transaction, the file will be re-opened				100528		1192700
1850+	and not closed until the next transaction, or until				100528		1192800
1851+	http_dclose() is called.				100528		1192900
1852+	*+++++				100528		1193000
1853+D	http_dmsg PR				100528		1193100
1854+D	peMsgTxt 256A const				100528		1193200
1855+					080205		1193300
1856+					100528		1193400
1857+	*+++++				100528		1193500
1858+	* http_dclose(): Close the HTTPAPI debug log.				100528		1193600
1859+	*				100528		1193700

Line Number	<----- Source Specifications ----->	<----- Comments ----->	Do Num	Page Line	Change Date	Src Id	Seq Number
1860+	* NOTE: Calling http_dmsg or http_dwrite will automatically				100528		1193800
1861+	* reopen the log. The log is automatically closed at				100528		1193900
1862+	* the end of an HTTP transaction (such as GET or POST)				100528		1194000
1863+	* If you want to close it at another time, call this				100528		1194100
1864+	* routine.				100528		1194200
1865+	*+++++				100528		1194300
1866+D	http_dclose PR				100528		1194400
1867+					071119		1194500
1868+					100528		1194600
1869+	*****				000000		1194700
1870+	** Error codes that HTTP API can return				000000		1194800
1871+	*****				000000		1194900
1872+	** Invalid URL format				000000		1195000
1873+D	HTTP_BADURL C CONST(1)				000000		1195100
1874+	** Host not found (not a valid IP address, or DNS lookup failed)				000000		1195200
1875+D	HTTP_HOSTNF C CONST(2)				000000		1195300
1876+	** Unable to create a new socket				000000		1195400
1877+D	HTTP_SOCERR C CONST(4)				000000		1195500
1878+	** Error when connecting to server				000000		1195600
1879+D	HTTP_BADCNN C CONST(6)				000000		1195700
1880+	** Timeout when connecting to server				000000		1195800
1881+D	HTTP_CNNTIMO C CONST(7)				000000		1195900
1882+	** HTTP response code logged (not an error, per se)				000000		1196000
1883+D	HTTP_RESP C CONST(13)				000000		1196100
1884+	** Error calling user-specified procedure in the				000000		1196200
1885+	** recvdoc() procedure. (user proc must return full count)				000000		1196300
1886+D	HTTP_RDWERR C CONST(16)				000000		1196400
1887+	** Unsupported transfer-encoding value				000000		1196500
1888+D	HTTP_XFRENC C CONST(20)				000000		1196600
1889+	** Error opening file to save data into.				000000		1196700
1890+D	HTTP_FDOPEN C CONST(22)				000000		1196800
1891+	** Problem with the Application ID for the DCM				000000		1196900
1892+D	HTTP_GSKAPPID C CONST(23)				000000		1197000
1893+	** Error setting auth type				000000		1197100
1894+D	HTTP_GSKATYP C CONST(24)				000000		1197200
1895+	** Error initializing GSKit environment				000000		1197300
1896+D	HTTP_GSKENVI C CONST(25)				000000		1197400
1897+	** Error opening GSKit environment				000000		1197500
1898+D	HTTP_GSKENVO C CONST(26)				000000		1197600
1899+	** Error setting session type (client | server | server_auth)				000000		1197700
1900+D	HTTP_GSKSTYP C CONST(27)				000000		1197800
1901+	** Error registering application w/DCM				000000		1197900
1902+D	HTTP_REGERR C CONST(28)				000000		1198000
1903+	** Error open secure socket				000000		1198100

Line Number	Source Specifications	Comments	Do Num	Page Line	Change Date	Src Id	Seq Number
1904+D	HTTP_SSOPEN C CONST(29)				000000		1198200
1905+	** Error setting SSL numeric file descriptor				000000		1198300
1906+D	HTTP_SSSNFD C CONST(30)				000000		1198400
1907+	** Error setting SSL numeric timeout value				000000		1198500
1908+D	HTTP_SSSNTO C CONST(31)				000000		1198600
1909+	** SSL handshake timed out				000000		1198700
1910+D	HTTP_SSTIMO C CONST(32)				000000		1198800
1911+	** This app is not registered with digital cert mgr				000000		1198900
1912+D	HTTP_NOTREG C CONST(35)				000000		1199000
1913+	** This URI needs authorization (user/pass)				000000		1199100
1914+D	HTTP_NDAUTH C CONST(36)				000000		1199200
1915+	** Invalid HTTP authentication type				000000		1199300
1916+D	HTTP_ATHTYP C CONST(37)				000000		1199400
1917+	** Error in value of an HTTP authentication string				000000		1199500
1918+D	HTTP_ATHVAL C CONST(38)				000000		1199600
1919+	** Server didn't ask for authorizatin				000000		1199700
1920+D	HTTP_NOAUTH C CONST(39)				000000		1199800
1921+	** blockread() timed out waiting for more data				000000		1199900
1922+D	HTTP_BRTIME C CONST(43)				000000		1200000
1923+	** blockread() error during recv() call				000000		1200100
1924+D	HTTP_BRRECV C CONST(44)				000000		1200200
1925+	** blockread() error during select() call				000000		1200300
1926+D	HTTP_BRSELE C CONST(45)				000000		1200400
1927+	** recvchunk() did not get the trailing CRLF chars				000000		1200500
1928+D	HTTP_RDCRLF C CONST(46)				000000		1200600
1929+	** Invalid exit point registered with HTTP_Xproc()				000000		1200700
1930+D	HTTP_BADPNT C CONST(47)				000000		1200800
1931+	** Error retrieving SSL protocol				000000		1200900
1932+D	HTTP_SSPROT C CONST(48)				000000		1201000
1933+	** Unknown SSL protocol				000000		1201100
1934+D	HTTP_SSPUNK C CONST(49)				000000		1201200
1935+	** Error setting SSL protocol				000000		1201300
1936+D	HTTP_SSPSET C CONST(50)				000000		1201400
1937+	** Out of memory				000000		1201500
1938+D	HTTP_NOMEM C CONST(51)				000000		1201600
1939+	** Must give data in order to encode it				000000		1201700
1940+D	HTTP_NODATA C CONST(52)				000000		1201800
1941+	** Pointer is invalid or already freed				000000		1201900
1942+D	HTTP_INVPTR C CONST(53)				000000		1202000
1943+	** Not enough space to add encoded variable				000000		1202100
1944+D	HTTP_NOSPAC C CONST(54)				000000		1202200
1945+	** Error calling send() API in BlockWrite()				000000		1202300
1946+D	HTTP_BWSEND C CONST(55)				000000		1202400
1947+	** Error calling select() API in BlockWrite()				000000		1202500

Line	----- Source Specifications -----><----- Comments ----->										Do	Page	Change	Src	Seq	
Number	1	2	3	4	5	6	7	8	9	10	Num	Line	Date	Id	Number	
1948	D	HTTP_BWSELE	C		CONST(56)								000000		1202600	
1949	+	** Timeout waiting to send in BlockWrite()												000000		1202700
1950	D	HTTP_BWTIME	C		CONST(57)								000000		1202800	
1951	+	** Lineread() had problem with recv() API												000000		1202900
1952	D	HTTP_LRRECV	C		CONST(58)								000000		1203000	
1953	+	** Lineread() had problem with select() API												000000		1203100
1954	D	HTTP_LRSELE	C		CONST(59)								000000		1203200	
1955	+	** Lineread() had timeout												000000		1203300
1956	D	HTTP_LRTIME	C		CONST(60)								000000		1203400	
1957	+	** Procedure is no longer supported												000000		1203500
1958	D	HTTP_NOTSUPP	C		CONST(61)								000000		1203600	
1959	+	** No communication driver defined												000000		1203700
1960	D	HTTP_NOCDRIV	C		CONST(62)								000000		1203800	
1961	+	** Timeout sending data in blockwrite												000000		1203900
1962	D	HTTP_BWTIMO	C		CONST(63)								000000		1204000	
1963	+	** Timeout sending data in blockwrite												000000		1204100
1964	D	HTTP_SWCERR	C		CONST(64)								000000		1204200	
1965	+	** Timeout sending data in blockwrite												000000		1204300
1966	D	HTTP_FDSTAT	C		CONST(65)								000000		1204400	
1967	+	** Error parsing XML data												000000		1204500
1968	D	HTTP_XMLERR	C		CONST(66)								000000		1204600	
1969	+	** Error opening IFS file												000000		1204700
1970	D	HTTP_IFOPEN	C		CONST(67)								000000		1204800	
1971	+	** Error with SSL keyring												000000		1204900
1972	D	HTTP_GSKKEYF	C		CONST(68)								000000		1205000	
1973	+	** Must Use Table / Must not Use Table												000000		1205100
1974	D	HTTP_MUTABLE	C		CONST(69)								000000		1205200	
1975	+	** Cookie file cant be written												000000		1205300
1976	D	HTTP_CKDUMP	C		CONST(70)								000000		1205400	
1977	+	** Cookie file cant be read												000000		1205500
1978	D	HTTP_CKOPEN	C		CONST(71)								000000		1205600	
1979	+	** Can't get stats on cookie file												000000		1205700
1980	D	HTTP_CKSTAT	C		CONST(72)								000000		1205800	
1981	+	** Error converting CCSIDs												000000		1205900
1982	D	HTTP_CONVERR	C		CONST(73)								000000		1206000	
1983	+	** Error setting stream file CCSID												000000		1206100
1984	D	HTTP_SETATTR	C		CONST(74)								000000		1206200	
1985	+	** This Proxy server needs authorization (user/pass)												000000		1206300
1986	D	HTTP_PXNDAUTH	C		CONST(75)								000000		1206400	
1987	+	** XML callback switched illegally												071119		1206500
1988	D	HTTP_ILLSWC	C		CONST(76)								071119		1206600	
1989	+	** Error getting certificate info												071218		1206700
1990	D	HTTP_SSLGCI	C		CONST(77)								071218		1206800	
1991	+	** Error from certificate validation callback												071218		1206900

Line Number	<----- Source Specifications ----->	<----- Comments ----->	Do Num	Page Line	Change Date	Src Id	Seq Number
1992+D	HTTP_SSLVAL C	CONST(78)			071218		1207000
1993+					000000		1207100
1994+					000000		1207200
1995+	*****				000000		1207300
1996+	* HTTP WWW-Authentication types				000000		1207400
1997+	*****				000000		1207500
1998+D	HTTP_AUTH_NONE...				000000		1207600
1999+D	C	'0'			000000		1207700
2000+D	HTTP_AUTH_BASIC...				000000		1207800
2001+D	C	'1'			000000		1207900
2002+D	HTTP_AUTH_MD5_DIGEST...				000000		1208000
2003+D	C	'2'			000000		1208100
2004+					000000		1208200
2005+					000000		1208300
2006+	*****				000000		1208400
2007+	* HTTPAPI Exit points				000000		1208500
2008+	*****				000000		1208600
2009+	** Debug exit point:	This is called when ASCII stream data is to be			000000		1208700
2010+	**	to a log file. Here's the prototype for a			000000		1208800
2011+	**	debug exit procedure:			000000		1208900
2012+	**				000000		1209000
2013+	** D debug_proto PR				000000		1209100
2014+	** D DataToLog	* value			000000		1209200
2015+	** D Length	10I 0 value			000000		1209300
2016+	**				000000		1209400
2017+D	HTTP_POINT_DEBUG...				000000		1209500
2018+D	C	1			000000		1209600
2019+					000000		1209700
2020+	** Upload status exit point:	This is called periodically during an			000000		1209800
2021+	**	upload (POST) to an HTTP(S) server.			000000		1209900
2022+	**	Allows you to display progress to the			000000		1210000
2023+	**	user.			000000		1210100
2024+	**				000000		1210200
2025+	** D upload_proto PR				000000		1210300
2026+	** D BytesSent	10U 0 value			000000		1210400
2027+	** D BytesTotal	10U 0 value			000000		1210500
2028+	**				000000		1210600
2029+D	HTTP_POINT_UPLOAD_STATUS...				000000		1210700
2030+D	C	2			000000		1210800
2031+					000000		1210900
2032+	** Download status exit point:	This is called periodically during a			000000		1211000
2033+	**	download (POST or GET) from an HTTP(S)			000000		1211100
2034+	**	server. Allows you to display the			000000		1211200
2035+	**	progress to the user.			000000		1211300

Line Number	Source Specifications	Comments	Do Num	Page Line	Change Date	Src Id	Seq Number
2036+	**				000000		1211400
2037+	** D download_proto PR				000000		1211500
2038+	** D BytesRecv 10U 0 value				000000		1211600
2039+	** D BytesTotal 10U 0 value				000000		1211700
2040+	**				000000		1211800
2041+	D HTTP_POINT_DOWNLOAD_STATUS...				000000		1211900
2042+	D C 3				000000		1212000
2043+	**				000000		1212100
2044+	** Additional Header fields exit point:				000000		1212200
2045+	** Allows you to supply additional header data to be added				000000		1212300
2046+	** to the HTTP request chain. Data should be in EBCDIC with				000000		1212400
2047+	** x'0d25' after each header record.				000000		1212500
2048+	**				000000		1212600
2049+	** D addl_hdrs_prot PR				000000		1212700
2050+	** D HeaderData 1024A varying				000000		1212800
2051+	**				000000		1212900
2052+	D HTTP_POINT_ADDDL_HEADER...				081014		1213000
2053+	D C 4				081014		1213100
2054+	**				081014		1213200
2055+	** Header parse exit point:				000000		1213300
2056+	** Allows you to examine the HTTP response chain received				000000		1213400
2057+	** from the HTTP server.				000000		1213500
2058+	**				000000		1213600
2059+	** D parse_hdr_prot PR				000000		1213700
2060+	** D HeaderData 2048A const				000000		1213800
2061+	**				000000		1213900
2062+	D HTTP_POINT_PARSE_HEADER...				000000		1214000
2063+	D C 5				000000		1214100
2064+	**				000000		1214200
2065+	** Header parse exit point:				000000		1214300
2066+	** Allows you to examine the HTTP response chain received				000000		1214400
2067+	** from the HTTP server. (allows longer headers)				000000		1214500
2068+	**				000000		1214600
2069+	** D parse_hdr_long PR				000000		1214700
2070+	** D HeaderData 32767A const varying				000000		1214800
2071+	**				000000		1214900
2072+	D HTTP_POINT_PARSE_HDR_LONG...				000000		1215000
2073+	D C 6				000000		1215100
2074+	**				071218		1215200
2075+	** SSL Certificate validation:				071218		1215300
2076+	** This will be called repeatedly for each field in each				071218		1215400
2077+	** certificate when parsed by HTTPAPI.				071218		1215500
2078+	**				071218		1215600
2079+	** D cert_valid PR 10i 0				071218		1215700

Line Number	<----- Source Specifications ----->	<----- Comments ----->	Do Num	Page Line	Change Date	Src Id	Seq Number
2080+	** D usrdta *	value			071218		1215800
2081+	** D id	like(CERT_DATA_ID) value			071218		1215900
2082+	** D data	32767a varying const			071218		1216000
2083+	** D errmsg	80a			071218		1216100
2084+	** id = certificate data id (see CERT_DATA_ID_T in GSKSSL_H)				071218		1216200
2085+	** data = certificate element data. (For binary elements, this				071218		1216300
2086+	** is binary data. For others, it'll be EBCDIC data.)				071221		1216400
2087+	** errmsg = the callback can use this to return a reason why a				071218		1216500
2088+	** certificate wasn't valid. (retrievable w/HTTP_error)				071218		1216600
2089+	** Return 0 if okay, -1 if you want to reject it.				071218		1216700
2090+	** HTTP_POINT_CERT_VAL...				071218		1216800
2091+	** C	7			071218		1216900
2092+	** HTTP_POINT_CERT_VAL...				071218		1217000
2093+	** C	7			071218		1217100
2094+	** SSL Certificate validation (GSKit)				071218		1217200
2095+	** This sets the GSK_CERT_VALIDATION_CALLBACK callback proc				071218		1217300
2096+	** within GSKit. The GSKit (not HTTPAPI) will call back				071221		1217400
2097+	** your procedure to validate a certificate.				071218		1217500
2098+	** See the gsk_attribute_set_callback() API documentation				071218		1217600
2099+	** in the IBM Information Center for details.				071218		1217700
2100+	** Note: The UserData parameter to http_xproc() will be				071218		1217800
2101+	** passed as the 3rd parameter to the				071218		1217900
2102+	** gsk_attribute_set_callback() API -- the peProc				071218		1218000
2103+	** parameter to http_xproc() is ignored for this				071218		1218100
2104+	** exit point.				071218		1218200
2105+	** HTTP_POINT_GSKIT_CERT_VAL...				071218		1218300
2106+	** C	8			071218		1218400
2107+	** HTTP_POINT_GSKIT_CERT_VAL...				071218		1218500
2108+	** C	8			071218		1218600
2109+	** HTTP_POINT_GSKIT_CERT_VAL...				071218		1218700
2110+	** C	8			071218		1218800
2111+	** HTTP_POINT_GSKIT_CERT_VAL...				071218		1218900
2112+	** C	8			000000		1219000
2113+	** HTTP_POINT_GSKIT_CERT_VAL...				000000		1219100
2114+	** HTTP_POINT_GSKIT_CERT_VAL...				000000		1219200
2115+	** HTTP_POINT_GSKIT_CERT_VAL...				000000		1219300
2116+	** HTTP_POINT_GSKIT_CERT_VAL...				000000		1219400
2117+	** HTTP_POINT_GSKIT_CERT_VAL...				000000		1219500
2118+	** HTTP_POINT_GSKIT_CERT_VAL...				000000		1219600
2119+	** HTTP_POINT_GSKIT_CERT_VAL...				101116		000400
2120+	** HTTP_POINT_GSKIT_CERT_VAL...				101111		000500
2121+	** HTTP_POINT_GSKIT_CERT_VAL...				101111		000600
2122+	** HTTP_POINT_GSKIT_CERT_VAL...				101111		000700
2123+	** HTTP_POINT_GSKIT_CERT_VAL...				101111		000800

* * * * *

A d d i t i o n a l D i a g n o s t i c M e s s a g e s

Msg id Sv Number Seq Message text

* * * * * E N D O F A D D I T I O N A L D I A G N O S T I C M E S S A G E S * * * * *

/ C o p y M e m b e r s

Line Src RPG name <----- External name -----> CCSID <- Last change ->

Number	Id	Library	File	Member	Date	Time
3	1	HTTPAPI_H	LIBHTTP	QRPGLSRC HTTPAPI_H	277	16-11-10 10:31:07
39	2	CONFIG_H	LIBHTTP	QRPGLSRC CONFIG_H	277	16-11-10 10:31:06

* * * * * E N D O F / C O P Y M E M B E R S * * * * *

C r o s s R e f e r e n c e

File and Record References:

File Record	Device	References (D=Defined)
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No references in the source.

Global Field References:

Field	Attributes	References (D=Defined M=Modified)
*INLR	N(1)	2137M
BUFFER	A(40)	2119D 2130M 2133
HTTP_ASCII	CONST	102D
HTTP_ATHTYP	CONST	1916D
HTTP_ATHVAL	CONST	1918D
HTTP_AUTH_BASIC	CONST	2001D
HTTP_AUTH_MD5_DIGEST...	CONST	2003D
HTTP_AUTH_NONE	CONST	1999D
HTTP_BADCNN	CONST	1879D
HTTP_BADPNT	CONST	1930D
HTTP_BADURL	CONST	1873D
HTTP_BRRECV	CONST	1924D
HTTP_BRSELE	CONST	1926D
HTTP_BRTIME	CONST	1922D
*RNF7031 HTTP_BUILD_SOCKADDR...	I(10,0)	413D
	PROTOTYPE	
HTTP_BWSELE	CONST	1948D
HTTP_BWSEND	CONST	1946D
HTTP_BWTIME	CONST	1950D
HTTP_BWTIMO	CONST	1962D
HTTP_CCSID	CONST	115D
HTTP_CKDUMP	CONST	1976D
HTTP_CKOPEN	CONST	1978D
HTTP_CKSTAT	CONST	1980D
*RNF7031 HTTP_CLOSE	I(10,0)	427D
	PROTOTYPE	
HTTP_CNNTIMO	CONST	1881D
*RNF7031 HTTP_COMP	PROTOTYPE	1637D
HTTP_CONTTYPE	CONST	83D
HTTP_CONVERR	CONST	1982D
HTTP_COOKIE_DEFAULT...	CONST	145D

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*RNF7031	HTTP_COOKIE_FILE	PROTOTYPE	1627D	
*RNF7031	HTTP_CRASH	PROTOTYPE	1654D	
*RNF7031	HTTP_DCLOSE	PROTOTYPE	1866D	
	HTTP_DEBUG	PROTOTYPE	1395D	2125M
*RNF7031	HTTP_DEBUG_FILE	A(500)	151D	
		VARYING		
*RNF7031	HTTP_DIAG	PROTOTYPE	1646D	
*RNF7031	HTTP_DMSG	PROTOTYPE	1853D	
*RNF7031	HTTP_DWRITE	PROTOTYPE	1833D	
	HTTP_EBCDIC	CONST	101D	
*RNF7031	HTTP_ERROR	A(80)	439D	
		PROTOTYPE		
*RNF7031	HTTP_ESCAPEXML	A(4096)	1811D	
		VARYING		
		PROTOTYPE		
	HTTP_FDOPEN	CONST	1890D	
	HTTP_FDSTAT	CONST	1966D	
*RNF7031	HTTP_GET	I(10,0)	203D	
		PROTOTYPE		
*RNF7031	HTTP_GET_XML	I(10,0)	859D	
		PROTOTYPE		
*RNF7031	HTTP_GET_XMLTF	I(10,0)	910D	
		PROTOTYPE		
*RNF7031	HTTP_GETAUTH	I(10,0)	466D	
		PROTOTYPE		
	HTTP_GSKAPPID	CONST	1892D	
	HTTP_GSKATYP	CONST	1894D	
	HTTP_GSKENVI	CONST	1896D	
	HTTP_GSKENVO	CONST	1898D	
	HTTP_GSKKEYF	CONST	1972D	
	HTTP_GSKSTYP	CONST	1900D	
*RNF7031	HTTP_HEADER	A(32500)	1594D	
		VARYING		
		PROTOTYPE		
	HTTP_HOSTNF	CONST	1875D	
	HTTP_IFOPEN	CONST	1970D	
	HTTP_IFSMODE	CONST	130D	
	HTTP_ILLSWC	CONST	1988D	
	HTTP_INVPTR	CONST	1942D	
*RNF7031	HTTP_LONG_PARSEURL...			
		I(10,0)	699D	
		PROTOTYPE		
	HTTP_LRRECV	CONST	1952D	
	HTTP_LRSELE	CONST	1954D	
	HTTP_LRTIME	CONST	1956D	
*RNF7031	HTTP_MFD_ENCODER_ADDSTMF...			

	N(1)	1368D
	PROTOTYPE	
*RNF7031	HTTP_MFD_ENCODER_ADDVAR...	
	N(1)	1331D
	PROTOTYPE	
*RNF7031	HTTP_MFD_ENCODER_ADDVAR_S...	
	N(1)	1349D
	PROTOTYPE	
*RNF7031	HTTP_MFD_ENCODER_CLOSE...	
	PROTOTYPE	1382D
*RNF7031	HTTP_MFD_ENCODER_OPEN...	
	*(16)	1313D
	PROTOTYPE	
	HTTP_MUTABLE	CONST
	CONST	1974D
	HTTP_NDAUTH	CONST
	CONST	1914D
*RNF7031	HTTP_NEXTXMLATTR	N(1)
	PROTOTYPE	1796D
	HTTP_NOAUTH	CONST
	CONST	1920D
	HTTP_NOCDRIV	CONST
	CONST	1960D
	HTTP_NODATA	CONST
	CONST	1940D
	HTTP_NOMEM	CONST
	CONST	1938D
	HTTP_NOSPAC	CONST
	CONST	1944D
	HTTP_NOTREG	CONST
	CONST	1912D
	HTTP_NOTSUPP	CONST
	CONST	1958D
*RNF7031	HTTP_PARSE_XML_STMF...	
	I(10,0)	1574D
	PROTOTYPE	
*RNF7031	HTTP_PARSE_XML_STRING...	
	I(10,0)	1774D
	PROTOTYPE	
*RNF7031	HTTP_PARSER_GET_END_CB...	
	*(16) PROCPTR	1745D
	PROTOTYPE	
*RNF7031	HTTP_PARSER_GET_START_CB...	
	*(16) PROCPTR	1736D
	PROTOTYPE	
*RNF7031	HTTP_PARSER_GET_USERDATA...	
	*(16)	1754D
	PROTOTYPE	
*RNF7031	HTTP_PARSER_SWITCH_CB...	
	I(10,0)	1723D
	PROTOTYPE	
*RNF7031	HTTP_PARSEURL	I(10,0)
	PROTOTYPE	390D
*RNF7031	HTTP_PERSIST_CLOSE...	
	I(10,0)	1290D

	PROTOTYPE	
*RNF7031 HTTP_PERSIST_GET	I(10,0)	1201D
	PROTOTYPE	
*RNF7031 HTTP_PERSIST_OPEN	*(16)	1166D
	PROTOTYPE	
*RNF7031 HTTP_PERSIST_POST	I(10,0)	1261D
	PROTOTYPE	
HTTP_POINT_ADDL_HEADER...		
	CONST	2053D
HTTP_POINT_CERT_VAL...		
	CONST	2094D
HTTP_POINT_DEBUG	CONST	2018D
HTTP_POINT_DOWNLOAD_STATUS...		
	CONST	2042D
HTTP_POINT_GSKIT_CERT_VAL...		
	CONST	2111D
HTTP_POINT_PARSE_HDR_LONG...		
	CONST	2073D
HTTP_POINT_PARSE_HEADER...		
	CONST	2063D
HTTP_POINT_UPLOAD_STATUS...		
	CONST	2030D
*RNF7031 HTTP_POST	I(10,0)	258D
	PROTOTYPE	
*RNF7031 HTTP_POST_STMF	I(10,0)	802D
	PROTOTYPE	
*RNF7031 HTTP_POST_STMF_XML...		
	I(10,0)	1076D
	PROTOTYPE	
*RNF7031 HTTP_POST_STMF_XMLTF...		
	I(10,0)	1137D
	PROTOTYPE	
*RNF7031 HTTP_POST_XML	I(10,0)	971D
	PROTOTYPE	
*RNF7031 HTTP_POST_XMLTF	I(10,0)	1027D
	PROTOTYPE	
*RNF7031 HTTP_PROXY_GETAUTH...		
	I(10,0)	537D
	PROTOTYPE	
*RNF7031 HTTP_PROXY_SETAUTH...		
	I(10,0)	512D
	PROTOTYPE	
HTTP_PXNDAUTH	CONST	1986D
HTTP_RDCRLF	CONST	1928D
HTTP_RDWERR	CONST	1886D
*RNF7031 HTTP_REDIR_LOC	A(1024)	568D

	VARYING				
	PROTOTYPE				
	HTTP_REGERR	CONST	1902D		
	HTTP_RESP	CONST	1883D		
*RNF7031	HTTP_SELECT_COMMDRIVER...				
	*(16)		717D		
	PROTOTYPE				
*RNF7031	HTTP_SET_100_TIMEOUT...				
	PROTOTYPE		1534D		
	HTTP_SETATTR	CONST	1984D		
*RNF7031	HTTP_SETAUTH	I(10,0)	482D		
	PROTOTYPE				
	HTTP_SETCCSIDS	I(10,0)	1411D	2129	
	PROTOTYPE				
*RNF7031	HTTP_SETFILECCSID	PROTOTYPE	1450D		
*RNF7031	HTTP_SETPROXY	I(10,0)	496D		
	PROTOTYPE				
*RNF7031	HTTP_SETTABLES	I(10,0)	1427D		
	PROTOTYPE				
	HTTP_SOCERR	CONST	1877D		
	HTTP_SSLGCI	CONST	1990D		
	HTTP_SSLVAL	CONST	1992D		
	HTTP_SSOPEN	CONST	1904D		
	HTTP_SSProt	CONST	1932D		
	HTTP_SSPSET	CONST	1936D		
	HTTP_SSPUNK	CONST	1934D		
	HTTP_SSSNFD	CONST	1906D		
	HTTP_SSSNTO	CONST	1908D		
	HTTP_SSTIMO	CONST	1910D		
	HTTP_STMF_CALC	CONST	1582D		
	HTTP_SWCERR	CONST	1964D		
*RNF7031	HTTP_TEMPFILE	A(40)	1662D		
	VARYING				
	PROTOTYPE				
	HTTP_TIMEOUT	CONST	70D		
*RNF7031	HTTP_URL_ENCODER	*(16)	580D	582	601
			640	658	674
*RNF7031	HTTP_URL_ENCODER_ADDVAR...				
	N(1)		600D		
	PROTOTYPE				
*RNF7031	HTTP_URL_ENCODER_ADDVAR_S...				
	N(1)		673D		
	PROTOTYPE				
*RNF7031	HTTP_URL_ENCODER_FREE...				
	N(1)		657D		
	PROTOTYPE				

*RNF7031	HTTP_URL_ENCODER_GETPTR...	PROTOTYPE	618D
*RNF7031	HTTP_URL_ENCODER_GETSTR...	A(32767)	639D
		VARYING	
		PROTOTYPE	
*RNF7031	HTTP_URL_ENCODER_NEW...	*(16)	582D
		PROTOTYPE	
*RNF7031	HTTP_URL_GET	I(10,0)	217D
		PROTOTYPE	
*RNF7031	HTTP_URL_GET_RAW	I(10,0)	314D
		PROTOTYPE	
*RNF7031	HTTP_URL_GET_XML	I(10,0)	876D
		PROTOTYPE	
*RNF7031	HTTP_URL_POST	I(10,0)	273D
		PROTOTYPE	
*RNF7031	HTTP_URL_POST_RAW	I(10,0)	355D
		PROTOTYPE	
*RNF7031	HTTP_URL_POST_RAW2...		
		I(10,0)	746D
		PROTOTYPE	
*RNF7031	HTTP_URL_POST_STMF...		
		I(10,0)	788D
		PROTOTYPE	
*RNF7031	HTTP_URL_POST_STMF_XML...		
		I(10,0)	1093D
		PROTOTYPE	
*RNF7031	HTTP_URL_POST_XML	I(10,0)	989D
		PROTOTYPE	
*RNF7031	HTTP_USE_COOKIES	PROTOTYPE	1609D
	HTTP_USERAGENT	CONST	76D
	HTTP_XFRENC	CONST	1888D
	HTTP_XLATE	I(10,0)	1464D
		PROTOTYPE	
*RNF7031	HTTP_XLATEDYN	I(10,0)	1498D
		PROTOTYPE	
*RNF7031	HTTP_XLATEP	I(10,0)	1481D
		PROTOTYPE	
	HTTP_XML_CALC	CONST	1581D
*RNF7031	HTTP_XML_SETCCSIDS...		
		I(10,0)	1549D
		PROTOTYPE	
	HTTP_XMLERR	CONST	1968D
*RNF7031	HTTP_XMLNS	PROTOTYPE	1671D
*RNF7031	HTTP_XMLRETURNPTR	PROTOTYPE	1685D

2133

*RNF7031	HTTP_XMLSTRIPCRLF	PROTOTYPE	1701D			
*RNF7031	HTTP_XPROC	I(10,0)	556D			
		PROTOTYPE				
	HTTPAPI_RELDATE	CONST	37D			
	HTTPAPI_VERSION	CONST	35D			
	RC	I(10,0)	2121D	2129M	2133M	2134
	SIZE	I(10,0)	2120D	2131M	2133	
	TO_ASCII	CONST	2117D	2133		
	TO_EBCDIC	CONST	2118D			

Indicator References:

Indicator	References (D=Defined M=Modified)
LR	2137M

* * * * * E N D O F C R O S S R E F E R E N C E * * * * *

E x t e r n a l R e f e r e n c e s

Statically bound procedures:

Procedure	References	
HTTP_COMP	1637	
HTTP_DIAG	1646	
HTTP_DMSG	1853	
HTTP_CLOSE	427	
HTTP_ERROR	439	
HTTP_XPROC	556	
HTTP_DEBUG	1395	2125
HTTP_XLATE	1464	2133
HTTP_CRASH	1654	
HTTP_XMLNS	1671	
HTTP_XLATEP	1481	
HTTP_HEADER	1594	
HTTP_DWRITE	1833	
HTTP_DCLOSE	1866	
HTTP_URL_GET	203	217
HTTP_GETAUTH	466	
HTTP_SETAUTH	482	
HTTP_URL_POST	258	273
HTTP_PARSEURL	390	
HTTP_SETPROXY	496	
HTTP_XLATEDYN	1498	
HTTP_TEMPFILE	1662	
HTTP_REDIR_LOC	568	
HTTP_GET_XMLTF	910	
HTTP_SETCCSIDS	1411	2129
HTTP_SETTABLES	1427	
HTTP_ESCAPEXML	1811	
HTTP_POST_XMLTF	1027	
HTTP_URL_GET_RAW	314	
HTTP_URL_GET_XML	859	876
HTTP_PERSIST_GET	1201	
HTTP_USE_COOKIES	1609	
HTTP_COOKIE_FILE	1627	
HTTP_NEXTXMLATTR	1796	
HTTP_URL_POST_RAW	355	
HTTP_URL_POST_XML	971	989
HTTP_PERSIST_OPEN	1166	
HTTP_PERSIST_POST	1261	
HTTP_SETFILECCSID	1450	
HTTP_XMLRETURNPTR	1685	
HTTP_XMLSTRIPCRLF	1701	
HTTP_PROXY_SETAUTH	512	

HTTP_PROXY_GETAUTH	537	
HTTP_LONG_PARSEURL	699	
HTTP_URL_POST_RAW2	746	
HTTP_URL_POST_STMF	788	802
HTTP_PERSIST_CLOSE	1290	
HTTP_XML_SETCCSIDS	1549	
HTTP_BUILD SOCKADDR	413	
HTTP_PARSE_XML_STMF	1574	
HTTP_URL_ENCODER_NEW	582	
HTTP_POST_STMF_XMLTF	1137	
HTTP_SET_100_TIMEOUT	1534	
HTTP_URL_ENCODER_FREE	657	
HTTP_MFD_ENCODER_OPEN	1313	
HTTP_PARSER_SWITCH_CB	1723	
HTTP_PARSE_XML_STRING	1774	
HTTP_SELECT_COMMDRIVER	717	
HTTP_URL_POST_STMF_XML	1076	1093
HTTP_MFD_ENCODER_CLOSE	1382	
HTTP_PARSER_GET_END_CB	1745	
HTTP_URL_ENCODER_ADDVAR	600	
HTTP_URL_ENCODER_GETPTR	618	
HTTP_URL_ENCODER_GETSTR	639	
HTTP_MFD_ENCODER_ADDVAR	1331	
HTTP_MFD_ENCODER_ADDSTMF	1368	
HTTP_PARSER_GET_START_CB	1736	
HTTP_PARSER_GET_USERDATA	1754	
HTTP_URL_ENCODER_ADDVAR_S	673	
HTTP_MFD_ENCODER_ADDVAR_S	1349	

Imported fields:

Field	Attributes	Defined
No references in the source.		

Exported fields:

Field	Attributes	Defined
No references in the source.		

* * * * * E N D O F E X T E R N A L R E F E R E N C E S * * * * *

M e s s a g e S u m m a r y

Msg id Sv Number Message text

*RNF7031 00 75 The name or indicator is not referenced.

* * * * * E N D O F M E S S A G E S U M M A R Y * * * * *

F i n a l S u m m a r y

Message Totals:

Information	(00)	.	.	.	.	.	.	:	75
Warning	(10)	.	.	.	.	.	.	:	0
Error	(20)	.	.	.	.	.	.	:	0
Severe Error	(30+)	.	.	.	.	.	.	:	0
-----									-----
Total	.	.	.	.	.	.	.	:	75

Source Totals:

Records	.	.	.	.	.	.	.	:	2137
Specifications	.	.	.	.	.	.	.	:	598
Data records	.	.	.	.	.	.	.	:	0
Comments	.	.	.	.	.	.	.	:	1257

* * * * * E N D O F F I N A L S U M M A R Y * * * * *

Program ICONVTEST placed in library TEST. 00 highest severity. Created on 16-11-10 at 11:51:44.

* * * * * E N D O F C O M P I L A T I O N * * * * *