

Project Name: HTTP Service□
File: C:\Xbase\v19SL1\source\samples\apps\HttpService\project.xpj
Analysis Date: 10/20/2009
Time: 22:15:43

Total Files: 5

Include Files: 8

Name: AppSys
Type: Procedure
File: C:\Xbase\v19SL1\source\samples\apps\HttpService\HTTPCTR.PRG [39-40]

Name: ChkForDllAndVer
Type: Function
File: C:\Xbase\v19SL1\source\samples\apps\HttpService\HTTPCTR.PRG [45-65]
Called By:
Main : 182
Calls:
DllLoad : 50
DllUnload : 51
OutStd : 53,54,61
Os : 58,60
Variables:
[Lo] lRet : 46,=48,=55,=62,65
[Lo] cFamily : 46,=58,59
[Lo] cFullName : 46,=60,61
OS_FAMILY : 58
OS_FULLNAME : 60

Name: PrintUsage
Type: Procedure
File: C:\Xbase\v19SL1\source\samples\apps\HttpService\HTTPCTR.PRG [68-106]
Called By:
Main : 187,273
Calls:
OutStd : 104
Variables:
[Lo] cTxt : 70,=72,104

Name: Logger
Type: Class
File: C:\Xbase\v19SL1\source\samples\apps\HttpService\HTTPCTR.PRG [109-113]
Called By:
HttpJob:setResponseFile: 205,211
HttpServer:initClass: 69,92
HttpServer:serverMain: 114
HttpServer:connected: 152
Main : 77

```
Calls:
    write          : 111
    OutStd         : 112
Variables:
[MT-IL cMsg       : 111,112
```

```
Name: HttpCtr
Type: Class
File: C:\Xbase\v19SL1\source\samples\apps\HttpService\HTTPCTR.PRG [ 120-122 ]
Called By:
    Main          : 210,224,228,232,236,240,244,247
Derived From:
[Cl] ServiceController : 120
Methods:
[MT] logError       : 122
```

```
Name: HttpCtr:logError
Type: Method
File: C:\Xbase\v19SL1\source\samples\apps\HttpService\HTTPCTR.PRG [ 129-166 ]
Calls:
    IsMethod      : 137
    ::getLastError : 141
    OutStd        : 147,149,151,153,155,157,159,161,163
Variables:
[Pa] nMsg        : 129,146,148,150,152,154,156,158,160,162
[Lo] cLastErr    : 131,=141,147,149,151,153,155,157,159,161,163
    ::oLog        : 133,137
    SERVICE_MSG_CREATE_ERROR: 146
    SERVICE_MSG_DELETE_ERROR: 148
    SERVICE_MSG_START_ERROR: 150
    SERVICE_MSG_PAUSE_ERROR: 152
    SERVICE_MSG_STOP_ERROR: 154
    SERVICE_MSG_CONTINUE_ERROR: 156
    SERVICE_MSG_INTERROGATE_ERROR: 158
    SERVICE_MSG_WIN9X       : 160
    SERVICE_MSG_ALLREADYINSTALLED_ERROR: 162
```

```
Name: Main
Type: Procedure
File: C:\Xbase\v19SL1\source\samples\apps\HttpService\HTTPCTR.PRG [ 174-278 ]
Calls:
    ChkForDllAndVer : 182
    PrintUsage      : 187,273
    Logger:new      : 199
    HttpCtr         : 210,224,228,232,236,240,244,247
    :addController  : 210
    OutStd          : 220,221,223,227,231,235,239,243,263,265,271,276
    :install        : 224
    :uninstall      : 228
    :start          : 232
```

```

:stop : 236
:Continue : 240
:pause : 244
:getUpdatedControl : 247
ServiceQueryNames : 270

```

Variables:

```

[Pa] cControl : 174,186,218,226,230,234,238,242,246,268
[Pa] cUserName : 174,191,=191,210,219
[Pa] cPassword : 174,192,=192,210,219
[Lo] cServiceName : 176,=194,210,224,228,232,236,240,244,247
[Lo] cDisplayName : 176,=195,210
[Lo] cServicePathName : 177,=197,210
[Lo] oLog : 178,=199,210
[Lo] oControl : 178,=247
[Lo] aNames : 178,=269,270,271
[Lo] lOk : 178,=180,=224,=228,=232,=236,=240,=244,276
[Lo] cStatus : 178,=248,249,250,251,252,253,254,255,257,265
[Lo] cStatusTest : 178,=257,=259,259,=260,260,262
oControl:serviceType: 248
oControl:currentState: 249
oControl:controlsAccepted: 250
oControl:startType : 251
oControl:errorControl: 252
oControl:pathName : 253
oControl:startName : 254
oControl:displayName: 255
END : 274

```

Name: HttpJob

```

Type: Class
File: C:\Xbase\v19SL1\source\samples\apps\HttpService\HTTPJOB.PRG [ 35-55 ]
Derived From:
[Cl] Thread : 35
Variables:
[VA] nJobSocket : 38
[VA] cHttpRequest : 39
[VA] cHttpResponse : 40
[VA] cRequestMethod : 41
[VA] cResponseFile : 42
[VA] cRootDirectory : 43
Methods:
[MT] getHttpRequest : 45
[MT] getHttpResponse : 46
[MT] setRequestMethod : 47
[MT] setResponseFile : 48
[MT] sendHttpResponse : 49
[MT] sendError : 50
[MT] INIT : 53
[MT] execute : 54
[MT] destroy : 55

```

```
Name: HttpJob:INIT
  Type: Method
  File: C:\Xbase\v19SL1\source\samples\apps\HttpService\HTTPJOB.PRG [ 63-72 ]
  Calls:
    ::Thread:INIT      : 69
    ::setInterval      : 70
  Variables:
  [Pa] nSocket         : 63,67
  [Pa] cRoot           : 63,65
    ::cRootDirectory  : =65
    ::nJobSocket       : =67

Name: HttpJob:destroy
  Type: Method
  File: C:\Xbase\v19SL1\source\samples\apps\HttpService\HTTPJOB.PRG [ 77-80 ]
  Calls:
    SocketClose        : 78
  Variables:
    ::nJobSocket       : 78,=79
    INVALID_SOCKET     : 79

Name: HttpJob:execute
  Type: Method
  File: C:\Xbase\v19SL1\source\samples\apps\HttpService\HTTPJOB.PRG [ 87-113 ]
  Calls:
    ::getHttpRequest   : 89
    ::setRequestMethod : 93
    ::sendError        : 99,104,109
    ::getHttpResponse  : 103
    ::sendHttpResponse : 108

Name: HttpJob:getHttpRequest
  Type: Method
  File: C:\Xbase\v19SL1\source\samples\apps\HttpService\HTTPJOB.PRG [ 119-133 ]
  Calls:
    SocketRecv         : 126
  Variables:
  [Lo] cBuffer         : 121,=124,@126,127,=128
    ::cHttpRequest     : =123,127,=131,131,133
    ::nJobSocket       : 126

Name: HttpJob:getHttpResponse
  Type: Method
  File: C:\Xbase\v19SL1\source\samples\apps\HttpService\HTTPJOB.PRG [ 138-148 ]
  Calls:
    ::setResponseFile  : 142
  Variables:
    ::cHttpResponse    : =140,=146,148
    ::cResponseFile    : 146
```

Name: HttpJob:sendError

Type: Method

File: C:\Xbase\v19SL1\source\samples\apps\HttpService\HTTPJOB.PRG [154-158]

Calls:

SocketSend : 158

Variables:

[Pa] cString : 154,157

[Lo] cError : 155,=156,=157,157,158

::cRootDirectory : 156

::nJobSocket : 158

Name: HttpJob:sendHttpResponse

Type: Method

File: C:\Xbase\v19SL1\source\samples\apps\HttpService\HTTPJOB.PRG [164-166]

Calls:

SocketSend : 166

Variables:

::cHttpResponse : =165

::nJobSocket : =166

Name: HttpJob:setResponseFile

Type: Method

File: C:\Xbase\v19SL1\source\samples\apps\HttpService\HTTPJOB.PRG [174-213]

Calls:

Logger : 205,211

:log : 205,211

Variables:

[Lo] cFile : 176,=189,191,=192,=195,195,=197,197,=201,201,=202,
202,204,209

[Lo] nStart : 176,=180,183,185,189

[Lo] nEnd : 176,=185,189

::cResponseFile : =178,205,=209,211

::cHttpRequest : 189

::cRootDirectory : 195

Name: HttpJob:setHttpMethod

Type: Method

File: C:\Xbase\v19SL1\source\samples\apps\HttpService\HTTPJOB.PRG [219-229]

Variables:

[Lo] nPos : 221,=224,227

::cHttpMethod : =223,=227

::cHttpRequest : 227

Name: HttpServer

Type: Class

File: C:\Xbase\v19SL1\source\samples\apps\HttpService\HTTPSERVER.PRG [34-54]

Called By:

HttpServer:main : 175

Main : 82,87

Derived From:

[Cl]	ServiceApp	: 34
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Variables:

	HIDDEN	: 36
[CV]	nStatus	: 39
[CV]	nServerSocket	: 40
[CV]	nFDSet	: 41
[CV]	cRootDirectory	: 42
[CM]	connected	: 43
[CM]	initClass	: 47
[CM]	setRootDirectory	: 48
[CM]	serverMain	: 49
[CM]	main	: 51
[CM]	pause	: 52
[CM]	proceed	: 53
[CM]	stop	: 54

Name: HttpServer:initClass

Type: Method

File: C:\Xbase\v19SL1\source\samples\apps\HttpService\HTTPSERVER.PRG [63-94]

Calls:

Logger	: 69,92
:log	: 69,92
SocketFDSetNew	: 72
SocketCreate	: 76
SocketListen	: 81
SocketSetBlockingMode	: 86

Variables:

[Lo]	nSocket	: 65,=76,81,86,90
	::nStatus	: =67
	::nFDSet	: =72
	SOCK_STREAM	: 76
	INVALID_SOCKET	: 76
	::nServerSocket	: =90

Name: HttpServer:setRootDirectory

Type: Method

File: C:\Xbase\v19SL1\source\samples\apps\HttpService\HTTPSERVER.PRG [99-101]

Variables:

[CM]	cDir	: 99,100
	::cRootDirectory	: =100

Name: HttpServer:serverMain

Type: Method

File: C:\Xbase\v19SL1\source\samples\apps\HttpService\HTTPSERVER.PRG [108-118]

Calls:

::connected	: 112
HttpJob:new	: 113
Logger	: 114
:log	: 114

```
oJob:start          : 115
Variables:
[Lo]  nSocket       : 110,=112,=113,114
[Lo]  oJob          : 110,=113
      INVALID_SOCKET : 112
```

Name: HttpServer:connected

```
Type:  Method
File:  C:\Xbase\v19SL1\source\samples\apps\HttpService\HTTPSERVER.PRG [ 124-155 ]
```

```
Calls:
      SocketFD_ZERO      : 129
      SocketFD_SET       : 134
      SocketSelect       : 138
      SocketAccept       : 148
      Logger             : 152
      :log               : 152
```

```
Variables:
[Lo]  nNumber        : 126,=138,144
[Lo]  nConnectionSocket : 126,=148,155
      ::nFDSet        : 129,138
      INVALID_SOCKET   : 130,135,139,145,149
      ::nServerSocket  : =134,148
      SOCKET_ERROR     : 138
```

Name: HttpServer:main

```
Type:  Method
File:  C:\Xbase\v19SL1\source\samples\apps\HttpService\HTTPSERVER.PRG [ 157-178 ]
```

```
Calls:
      HttpServer        : 175
      :serverMain      : 175
```

```
Variables:
[CM]  aParam         : 157
      ::nStatus      : 162,167
```

Name: HttpServer:pause

```
Type:  Method
File:  C:\Xbase\v19SL1\source\samples\apps\HttpService\HTTPSERVER.PRG [ 185-187 ]
```

```
Variables:
      ::nStatus      : =186
```

Name: HttpServer:proceed

```
Type:  Method
File:  C:\Xbase\v19SL1\source\samples\apps\HttpService\HTTPSERVER.PRG [ 189-191 ]
```

```
Variables:
      ::nStatus      : =190
```

Name: HttpServer:stop

```
Type:  Method
File:  C:\Xbase\v19SL1\source\samples\apps\HttpService\HTTPSERVER.PRG [ 193-195 ]
```

```
Variables:
```

```
::nStatus : =194
```

Name: Main

Type: Procedure

File: C:\Xbase\v19SL1\source\samples\apps\HttpService\HTTPSERVICE.PRG [37-91]

Calls:

```
ErrorLog          : 44
ServiceController : 53,54
:addController    : 53
:getUpdatedControl : 54
Logger           : 77
HttpServer       : 82,87
:setRootDirectory : 82
:start           : 87
```

Variables:

```
[Pa] cParam          : 37
[Lo] cServiceName    : 39,=51,53,54
[Lo] oControl        : 39,=54
[Lo] cRootDir        : 39,=56,58,71,=72,72,77,82
[Lo] nPos            : 39,=71,72
[Lo] bError          : 39,=44,89
[CBPa] oError        : 44
      oControl:pathName : 56
```

Name: ErrorLog

Type: Function

File: C:\Xbase\v19SL1\source\samples\apps\HttpService\HTTPSERVICE.PRG [97-151]

Called By:

```
Main          : 44
```

Calls:

```
ProcName      : 105,106
ProcLine      : 106
EventLogWriteStr : 147
```

Variables:

```
[Pa] oError      : 97,110
[Lo] cString     : 98,=101,106,111,114,117,119,123,126,129,132,133,
                  134,135,136,137,138,139,140,141,147
[Lo] i          : 99,=102,105,106
      oError:Args : 113,117
[CBPa] x        : 117
      oError:canDefault : 123
      oError:canRetry   : 126
      oError:canSubstitute: 129
      oError:description : 132
      oError:filename   : 133
      oError:genCode    : 134
      oError:operation  : 135
      oError:osCode     : 136
      oError:severity   : 137
      oError:subCode    : 138
```

```
oError:subSystem : 139
oError:thread    : 140
oError:tries     : 141
LOG_ERROR_TYPE  : 147
```

Name: Logger

```
Type: Class
File: C:\Xbase\v19SL1\source\samples\apps\HttpService\LOGGER.PRG [ 26-31 ]
Variables:
[CV]  cFileName      : 28
[CM]  initClass     : 30
[CM]  log            : 31
```

Name: Logger:initClass

```
Type: Method
File: C:\Xbase\v19SL1\source\samples\apps\HttpService\LOGGER.PRG [ 34-39 ]
Variables:
[CM]  cFile          : 34,36
      ::cFileName    : =36,37
```

Name: Logger:log

```
Type: Method
File: C:\Xbase\v19SL1\source\samples\apps\HttpService\LOGGER.PRG [ 41-56 ]
Variables:
[CM]  cMsgLine      : 41,53
[Lo]  nPos          : 43,=52,53
      ::cFileName    : 45
      logdb         : 51,52,53,54
```

=====
Classes Defined:

```
CLASS: Logger
  Defined In: C:\Xbase\v19SL1\source\samples\apps\HttpService\HTTPCTR.PRG - [109-113]
METHODS:
  cMsg
```

```
CLASS: HttpCtr
  Defined In: C:\Xbase\v19SL1\source\samples\apps\HttpService\HTTPCTR.PRG - [120-122]
  Derived From:
    ServiceController

METHODS:
  logError
```

```
CLASS: HttpJob
  Defined In: C:\Xbase\v19SL1\source\samples\apps\HttpService\HTTPJOB.PRG - [35-55]
  Derived From:
    Thread
```

VARs:

- nJobSocket
- cHttpRequest
- cHttpResponse
- cRequestMethod
- cResponseFile
- cRootDirectory

METHODS:

- getHttpRequest
- getHttpResponse
- setRequestMethod
- setResponseFile
- sendHttpResponse
- sendError
- INIT
- execute
- destroy

CLASS: HttpServer

Defined In: C:\Xbase\v19SL1\source\samples\apps\HttpService\HTTPSERVER.PRG - [34-54]

Derived From:

ServiceApp

VARs:

- <CV> nStatus
- <CV> nServerSocket
- <CV> nFDSet
- <CV> cRootDirectory

METHODS:

- <CM> connected
- <CM> initClass
- <CM> setRootDirectory
- <CM> serverMain
- <CM> main
- <CM> pause
- <CM> proceed
- <CM> stop

CLASS: Logger

Defined In: C:\Xbase\v19SL1\source\samples\apps\HttpService\LOGGER.PRG - [26-31]

VARs:

- <CV> cFileName

METHODS:

- <CM> initClass
- <CM> log

Include Files Processed:

C:\Xbase\v19SL1\INCLUDE\COLLAT.CH
C:\Xbase\v19SL1\INCLUDE\FILEIO.CH
C:\Xbase\v19SL1\INCLUDE\GET.CH
C:\Xbase\v19SL1\INCLUDE\MEMVAR.CH
C:\Xbase\v19SL1\INCLUDE\NATMSG.CH
C:\Xbase\v19SL1\INCLUDE\PROMPT.CH
C:\Xbase\v19SL1\INCLUDE\SET.CH
C:\Xbase\v19SL1\INCLUDE\STD.CH

Files Processed:

C:\Xbase\v19SL1\source\samples\apps\HttpService\HTTPJOB.PRG
C:\Xbase\v19SL1\source\samples\apps\HttpService\HTTPSERVER.PRG
C:\Xbase\v19SL1\source\samples\apps\HttpService\HTTPSERVICE.PRG
C:\Xbase\v19SL1\source\samples\apps\HttpService\LOGGER.PRG
C:\Xbase\v19SL1\source\samples\apps\HttpService\HTTPCTR.PRG