```
    MD5Init(&Md5Ctx);
    MD5Update(&Md5Ctx, pszMethod, strlen(pszMethod));
    MD5Update(&Md5Ctx, ":", 1);
    MD5Update(&Md5Ctx, pszDigestUri, strlen(pszDigestUri));
    if (stricmp(pszQop, "auth-int") == 0) {
    MD5Update(&Md5Ctx, ":", 1);
    MD5Update(&Md5Ctx, HEntity, HASHHEXLEN);
};
MD5Final(HA2, &Md5Ctx);
CvtHex(HA2, HA2Hex);
// calculate response
MD5Init(&Md5Ctx);
MD5Update(&Md5Ctx, HA1, HASHHEXLEN);
MD5Update(&Md5Ctx, ":", 1);
MD5Update(&Md5Ctx, pszNonce, strlen(pszNonce));
MD5Update(&Md5Ctx, ":", 1);
if (*pszQop) {
       MD5Update(&Md5Ctx, pszNonceCount, strlen(pszNonceCount));
       MD5Update(&Md5Ctx, ":", 1);
       MD5Update(&Md5Ctx, pszCNonce, strlen(pszCNonce));
       MD5Update(&Md5Ctx, ":", 1);
       MD5Update(&Md5Ctx, pszQop, strlen(pszQop));
       MD5Update(&Md5Ctx, ":", 1);
    };
    MD5Update(&Md5Ctx, HA2Hex, HASHHEXLEN);
    MD5Final(RespHash, &Md5Ctx);
    CvtHex(RespHash, Response);
};
```

F.4.3 文件digtest.c

```
#include <stdio.h>
#include "digcalc.h"

void main(int argc, char ** argv) {
    char * pszNonce = "dcd98b7102dd2f0e8b11d0f600bfb0c093";
    char * pszCNonce = "0a4f113b";
    char * pszUser = "Mufasa";
    char * pszRealm = "testrealm@host.com";
    char * pszPass = "Circle Of Life";
    char * pszAlg = "md5";
    char szNonceCount[9] = "00000001";
    char * pszMethod = "GET";
    char * pszQop = "auth";
    char * pszURI = "/dir/index.html";
    HASHHEX HA1;
    HASHHEX HA2 = "";
    HASHHEX Response;
    DigestCalcHA1(pszAlg, pszUser, pszRealm, pszPass,
        pszNonce, pszCNonce, HA1);
        DigestCalcResponse(HA1, pszNonce, szNonceCount, pszCNonce, pszQop,
        pszMethod, pszURI, HA2, Response);
    printf("Response = %s\n", Response);
};
```

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