

```
/*
```

```
001-Generated C code for functional specification 'NGRAM_TEST'
```

```
VERSION: 3.2.3.9 C-RAT
```

```
: 1.6.0.0
```

```
AUTHOR: Hamilton Technologies Inc. Copyright 1991-2015.
```

```
OPERATION: NGRAM_TEST
```

```
GENERATED: Sun Sep 13 17:31:53 2015
```

```
SCCSID: @(#) %M% %I% of %G%.
```

```
*/
```

```
#include "MSGs.h"
```

```
#include "KEYEDMATCHES.h"
```

```
#include "MATCHES.h"
```

```
#include "STR.h"
```

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

```
#include <math.h>
```

```
#include <errno.h>
```

```
#include "BOOLEAN.h"
```

```
#include "NAT.h"
```

```
fNGRAM_TEST(V0FILENMS0,  
            V0SUMMSGs)
```

```
IDECLARE_MSGs(V0FILENMS0)
```

```
ODECLARE_MSGs(V0SUMMSGs)
```

```
{
```

```
/* __LOCAL_VARIABLE_DECLARATIONS__ */
```

```
DECLARE_KEYEDMATCHES(V0SUM)
```

```
DECLARE_KEYEDMATCHES(V0KEYEDMATCHES)
```

```
DECLARE_MATCHES(V0MATCHES)
```

```
DECLARE_MSGs(V0FILENMS)
```

```
DECLARE_STR(V0DIR)
```

```
DECLARE_STR(C6)
```

```
        /* __ITERATION_VARIABLE_DECLARATIONS__ */
        /* __CONSTANT_DECLARATIONS_AND_ASSIGNMENTS__ */
NEWSTACK_TRACE_IDSC("NGRAM_TEST");
DOT_K_STR("/home/oo1/server/",C6)
        /* __FUNCTION_SOURCE_CODE_BEGINNING__ */
    K_STR(C6,V0FILENMS0,V0DIR)
    fMAKE_1_GRAM(V0FILENMS0,V0DIR,&V0FILENMS);
    fREADER(V0FILENMS,V0DIR,&V0MATCHES);
    fGROUP_BY_KEYEDMATCHES(V0MATCHES,&V0KEYEDMATCHES);
    fSUM_COUNTS_KEYEDMATCHES(V0KEYEDMATCHES,&V0SUM);
    fCONVERT_MSGS_KEYEDMATCHES(V0SUM,V0SUMMSGs);
ENDSTACK_IDSC(); /* STR Garbage Collector */

return;
}
/* ----- end of source -----*/
```