

NAME

string.h – string operations

SYNOPSIS

#include <string.h>

DESCRIPTION

Some of the functionality described on this reference page extends the ISO C standard. Applications shall define the appropriate feature test macro (see the System Interfaces volume of IEEE Std 1003.1-2001, Section 2.2, The Compilation Environment) to enable the visibility of these symbols in this header.

The <string.h> header shall define the following:

NULL Null pointer constant.

size_t As described in <stddef.h> .

The following shall be declared as functions and may also be defined as macros. Function prototypes shall be provided.

```
void *memcpy(void *restrict, const void *restrict, int, size_t);
```

```
void *memchr(const void *, int, size_t);
```

```
int memcmp(const void *, const void *, size_t);
```

```
void *memcpy(void *restrict, const void *restrict, size_t);
```

```
void *memmove(void *, const void *, size_t);
```

```
void *memset(void *, int, size_t);
```

```
char *strcat(char *restrict, const char *restrict);
```

```
char *strchr(const char *, int);
```

```
int strcmp(const char *, const char *);
```

```
int strcoll(const char *, const char *);
```

```
char *strcpy(char *restrict, const char *restrict);
```

```
size_t strcspn(const char *, const char *);
```

```
char *strdup(const char *);
```

```
char *strerror(int);
```

```
int *strerror_r(int, char *, size_t);
```

```
size_t strlen(const char *);
```

```
char *strncat(char *restrict, const char *restrict, size_t);
```

```
int strncmp(const char *, const char *, size_t);
```

```
char *strncpy(char *restrict, const char *restrict, size_t);
```

```
char *strpbrk(const char *, const char *);
```

```
char *strrchr(const char *, int);
```

```
size_t strspn(const char *, const char *);
```

```
char *strstr(const char *, const char *);
```

```
char *strtok(char *restrict, const char *restrict);
```

```
char *strtok_r(char *, const char *, char **);
```

```
size_t strxfrm(char *restrict, const char *restrict, size_t);
```

Inclusion of the <string.h> header may also make visible all symbols from <stddef.h>.

The following sections are informative.

APPLICATION USAGE

None.

RATIONALE

None.

FUTURE DIRECTIONS

None.

SEE ALSO

<stddef.h>, <sys/types.h>, the System Interfaces volume of IEEE Std 1003.1-2001, *memccpy()*, *memchr()*, *memcmp()*, *memcpy()*, *memmove()*, *memset()*, *strcat()*, *strchr()*, *strcmp()*, *strcoll()*, *strcpy()*, *strcspn()*, *strdup()*, *strerror()*, *strlen()*, *strncat()*, *strncmp()*, *strncpy()*, *strpbrk()*, *strrchr()*, *strspn()*, *strstr()*, *strtok()*, *strxfrm()*

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