Table 25.16
Wide-String Comparison Functions and Their <string.h> Equivalents

| <wchar.h> Function | <string.h> Equivalent |
|---|---|
| wcscmp | strcmp |
| wcscoll | strcoll |
| wcsncmp | strncmp |
| wcsxfrm | strxfrm |
| wmemcmp | memcmp |

### Wide-String Search Functions

```
wchar_t *wcschr(const wchar_t *s, wchar_t c);
size_t wcscspn(const wchar_t *s1, const wchar_t *s2);
wchar_t *wcspbrk(const wchar_t *s1,
                 const wchar_t *s2);
wchar_t *wcsrchr(const wchar_t *s, wchar_t c);
size_t wcsspn(const wchar_t *s1, const wchar_t *s2);
wchar_t *wcsstr(const wchar_t *s1,
                const wchar_t *s2);
wchar_t *wcstok(wchar_t * restrict s1,
                const wchar_t * restrict s2,
                wchar_t ** restrict ptr);
wchar_t *wmemchr(const wchar_t *s, wchar_t c,
                 size_t n);
```

The functions in this group are wide-character versions of the string search functions found in <string.h> and described in Section 23.6. The <wchar.h> functions have arguments of type wchar_t * and wchar_t ** instead of char * and char **, but their behavior is mostly the same as the <string.h> functions. Table 25.17 shows the correspondence between the <string.h> functions and their wide-character counterparts.

Table 25.17
Wide-String Search Functions and Their <string.h> Equivalents

| <wchar.h> Function | <string.h> Equivalent |
|---|---|
| wcschr | strchr |
| wcscspn | strcspn |
| wcspbrk | strpbrk |
| wcsrchr | strrchr |
| wcsspn | strspn |
| wcsstr | strstr |
| wcstok | strtok |
| wmemchr | memchr |

*wcstok* The wcstok function serves the same purpose as strtok, but is used somewhat differently, thanks to its third parameter. (strtok has only two parameters.) To understand how wcstok works, we'll first need to review the behavior of strtok.