Using The International Utilities Package Routines

The **International Utilities Package** is part of the System file. It has the resource type 'PACK' and resource ID 6. This package contains code that uses the information in the international resources to handle string comparison and the presentation of time, currency, and numbers around the world. These vary from script to script, language to language, and region to region, and your application should take advantage of the Macintosh Operating System's ability to present this information in the correct format.

The **International Utilities Package** works in conjunction with the **Script Manager**. Formatting options provide flexibility in specifying exactly how dates and times are to be displayed. The string comparison capabilities handle non-Roman writing systems, such as Arabic and Japanese.

For more information about packages in general, see the section entitled **Package Manager**.

You need to use the **International Utilities Package** to enable your application to run in regions other than your own.

The following in the **International Utilities Package** enhancements are available with system software version 7.0. You can now

- obtain tables from the 'itl2' and 'itl4' resources
- use application-supplied 'itl2' and 'itl4' resources more easily
- specify resource handles explicitly for additional routines
- determine the interscript sorting order
- use special script and language codes with the new routines

Brief descriptions of the routines and features appear in the section, **Overview of the Intl Utils Package Routines**.

With system software version 7.0, the new **IUScriptOrder**, **IULangOrder**, **IUStringOrder**, **IUTextOrder**, and **IUGetItlTable** routines accept special script or language codes. These script and language codes facilitate the process of sorting text between scripts and languages. For these routines, system software version 7.0 has defined these new types: **ScriptCode** and **LangCode**. A valid **ScriptCode** type can be an integer in the range 0-64 that explicitly indicates a particular script, or it can be a negative value with a special meaning. A valid **LangCode** type can be a nonnegative integer that explicitly indicates a particular language, or it can be a negative value with a special meaning.

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