



Software Release Notes

LIPI ALPHANUMERIC CHARACTER RECOGNIZER

PACKAGE:

lipi-reco-char-alphanum 1.0

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1-1 Media & Configuration

1-1-1 System/Deployment Configuration

lipi-reco-char-alphanum 1.0 can be installed on any of the following platforms:

- Windows XP Professional edition
- Windows 2000 Professional edition
- Redhat Enterprise Linux Edition 3.0
- GNU Linux 2.6.9.22 and
- GNU Linux (Ubuntu) 2.6.14.6

1-1-1-1 Software requirements

Item and Description	Windows XP Profession edition & Windows 2000 Professional edition	Linux
Extracting the contents of the package	Cabarc sdk (Refer Appendix 5.3 of User Manual for download instructions)	tar
Building sample code/application code that uses these recognizers	Microsoft Visual Studio 6.0 with SP6	GCC 3.3.3 or above

1-2 Release Components

1-2-1 Package Name

Component Name	Version No.	Description of Change from previous version
lipi-reco-char-alphanum1.0-win.cab	1.0	Package for windows
lipi-reco-char-alphanum1.0-linux.tar.gz	1.0	Linux package

1-3 Documentation

The following documents are released with recognizer package:

- User Manual – describes the usage and integration with a client application.
- Release Notes – describes release information.

1-4 Limitations/Known Issues

1-4-1 Use of STL data type 'string' results in application crash

1-4-1-1 Problem statement

On Windows platforms, if the STL string data type is used in a client application and passed by reference to a DLL function, the application crashes when the string variable goes out of scope [Note: During our tests, this issue occurred in debug builds]. This is a known defect in Microsoft's STL library. More details can be found at the following link:

<http://support.microsoft.com/default.aspx?scid=kb;en-us;813810>

1-4-1-2 Workaround

Refer to <http://support.microsoft.com/default.aspx?scid=kb;en-us;813810> for details on the problem statement and fixes for the same. You may also refer to http://www.dinkumware.com/vc_fixes.html for more information.

1-4-2 Reset the capture device before calling recognize

1-4-2-1 Problem statement

The preprocessing function `normalizeSize` makes use of the `xdpi` and `ydpi` of the capture device to detect dots in the input ink. In case where the function `normalizeSize` is called twice on the same sample, the first call to the function changes the scale of the input ink sample. In order to reflect this change for subsequent calls to `normalizeSize`, the `xdpi` and `ydpi` of the capture device are modified.

1-4-2-2 Workaround

The capture device must be reset explicitly before every call to `recognize`.