

## GNU/Linux For Physically Challenged People

### Introduction:

'GNU/Linux for Physically Challenged-Beta-0.1.1' is a special distribution for physically challenged people, so that they can easily access FOSS desktops. Physical disability is a condition that limits a person's movements, senses, or activities. Persons who are suffering from different physical disabilities will face problems in pressing Key board keys continuously to type command and text, while using SHIFT, CTRL and ALT keys with any other Keys, move mouse pointer to a particular position to click there and Hand Co-ordination Problem. CDAC, Mumbai has worked to solve these problems and find other tools which are useful for physically challenged and incorporated them in this distro. This distro is based on Ubuntu 10.04 LTS Lucid Lynx.

### Salient Features For Physically Challenged:

The following features are available in 'GNU/Linux For Physically Challenged -Beta-0.1.1' distro.

- **Anumaan:** Anumaan is a perspective based, on-screen predictive text entry system. It is an extension of an Input Method (IM) mechanism (on GNOME desktop) in the sense that it extends its (IM) notion by including the power of text prediction. It has support for UTF-8 unicode encoding. This tool is very useful for physically challenged because they don't need to put much effort while typing in a text document.
- **GEM (GEstures with Mouse):** It is an input mechanism which uses gestures as input to the system. Gestures can be drawn using a mouse or some equivalent device like touch pad, joystick, pen tablet etc. This Input mechanism is useful for people suffering with different kinds of motor disabilities, who may face problems in using mouse and keyboard in conventional way. Hence, it provides them with an alternate and effective mechanism for using the system to perform various tasks such as navigation, executing commands & keyboard shortcuts, and launching applications etc. on Linux desktop.
- **GOK (Gnome On-Screen Keyboard):** The GNOME On-Screen Keyboard (GOK) application displays virtual keyboards on your screen that you can operate using the standard mouse pointer or an alternative pointing device.
- **Dasher:** Dasher is a computer accessibility tool which enables users to write without using a keyboard, by entering text on a screen using a pointing device such as a mouse, a touchpad, a touch screen, a roller ball, a joystick, a Push-button, a Wii Remote, or even mice operated by the foot or head. Such instruments could serve as prosthetic devices for disabled people who cannot use standard keyboards, or where the use of

one is impractical.

- All other default accessibility features are enabled.

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