Deferred Compilation as the Basis for a Linux Distribution

- **Speaker**: prescott2m
- **Room**: 340
- **Time**: Saturday, Oct 24th 10:00 – 10:20

- **Format**: Talk (20 minutes)
- **Difficulty**: Advanced!
- **Track**: Technical
- **Additional Tags**: Hardcore, Kernel, Programmer
- **Experience**: Open-source developer specializing in lightweight and minimalist software, with experience in Linux distribution creation, kernel work, and C programming.

Description:

Most Linux distributions ship precompiled software or compile at install time, but ccix takes a different approach. This session explains the architecture of ccix, an experimental distribution that utilizes deferred compilation—a technique where applications are compiled only when they are invoked. By using a custom deferred compiler based on libtcc and the Linux kernel's binfmt_misc feature, ccix creates a system with almost no binaries. This results in a distribution that is easier to port across architectures, highly hackable, avoids ABI mismatches, and eliminates the need for complex build systems like Autotools or CMake.

Target Audience:

- Sys-Admins
- Hardcore Psychos

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