# osFree RoadMap

osFree development must be attacked in several major stages - From a Command Line Inteface to the full Workplace Shell. Our current status in the chain is bolded.

### Component implementation status

- Filesystems support

### Steps to 1.0

#### 0.1

In this version CPI implementation must be mostly finished. 16-bit API support not required. CMD.EXE and tools must be recompiled (because only sourcelevel compatability at this stage).

| Version | Requirements | Status |
|---|---|---|
| 0.0.1 | L4 must be loaded using GRUB and Hello, world application must be executed (as L4 root task). Hello, world application is stub for osFree kernel. | Done |
| 0.0.2 | EXT2FS must be finished (in general) and boot sequence must be implemented. GRUB must be removed. MicroFSD is 16-bit (OS/2 compatible), IFS is 32-bit (not OS/2 compatible). MicroFSD must load FreeLDR and execute it. FreeLDR must load L4 kernel and root task (osFree kernel stub). LILO must not be required for EXT2FS. | Done |
| | **Note:** MiniFSD is absent because not required for microkernel architecture. | |
| 0.0.3 | osFree kernel must parse CONFIG.SYS using file provider server (not real device driver loading) and show config tree. | Done |
| 0.0.4 | LX loader and module linker (using file provider). osFree kernel must allow load and execute PROTSHELL application. | Done |
| 0.0.5 | Filesystem API implementation. LX loader must allow loading of MINICMD.EXE task via L4VFS and execute it. Minimal set of API must be implemented. All pointers operations must be replaced by handles (implement handle manager). OS/2 Server must be more structured. Support of OS/2 memory map. **More...** | **In Progress** |
| 0.0.6 | VIO Server implementation. VIO API implementation (32-bit version, via VIO Server). Console support instead of output to log server. Console output via nitpicker (write server like proxygon). | Not Done |
| 0.0.7 | KBD API implementation (32-bit version) | Not Done |
| 0.0.8 | Concurrent execution of many applications. Multithreaded applications. | Not Done |
| 0.0.9 | OpenWatcom and build tools must be recompiled as 32-bit version (no 16-bit API must be used). (LX format) | Not Done |
| 0.0.10 | CMD.EXE must be compiled and all required CPI for it must be implemented. (LX format, 32-bit API only) | Not Done |
| 0.0.11 | Self-compiled version of osFree. (LX format, no 16-bit API) | Not Done |
| 0.0.12 | Open Object REXX must be ported. (LX format, no 16-bit API) | Not Done |

**0.2**

16-bit API support must be implemented.

| Version | Requirements | Status |
|---|---|---|
| 0.1.1 | 16↔32 thinking must be implemented | Not Done |
| 0.1.2 | 16→32 calls wrappers | Not Done |
| 0.1.3 | ELF format support | Not Done |
| 0.1.4 | NE format support | Not Done |

**0.3**

SOM tools and environment must be implemented. (Reused of somFree, not included in osFree source tree yet)

| Version | Requirements | Status |
|---|---|---|
| 0.2.1 | SOM Compiler Watcom Linker Emitter | Done |
| 0.2.2 | SOM Compiler Preprocessor | Done |
| 0.2.3 | SOM Compiler C Emitter must be implemented | Done (builtin) |
| 0.2.4 | SOM Compiler C++ Emitter must be implemented | Done (builtin) |
| 0.2.5 | SOM Emitter Framework classes must be implemented | In progress |
| 0.2.6 | SOM Compiler must be implemented | Done |
| 0.2.7 | SOM CPI Intefaces | Not Done |
| | SOM Run-time Kernel | Not done |
| | SOM Event Management Framework | not done |
| | SOMObjects Interface Repository Framework | |
| | SOMObjects Utility Classes | not done |
| | Distributed SOM Frameword | not done |

**0.4**

GPI must be implemented (NO SOM Here)

**0.5**

PM must be implemented (SOM Based PM???)

**0.6**

WPS must be implemented

**0.7**

Network must be implemented

#### Unsorted yet

1. **osFree toolkit** Clone of OS/2 Toolkit
2. **Command line tools** Clone of command line OS/2 tools
3. **DOS Command line tools** Clone of DOS and dual mode tools
4. **DOSKRNL** clone
5. **Win16 applications** clone of Win16 GUI applications
6. **Win16 DLLs** clone of high level Win16 DLLs
7. **Win16 drivers** clone of base device drivers (COMM, KEYBOARD, SYSTEM, MOUSE)
8. **Win16 USER.DLL** clone of Win16 USER.DLL
9. **Win16 GDI.DLL** clone of Win16 GDI.DLL
10. **Win16 kernel** clone of KRNL386.EXE

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