HelenOS is a modern micro-kernel based operating system being developed at the Faculty of Mathematics and Physics of the Charles University in Prague. Application checkpointing is a feature which is primarily
used for adding fault tolerance to computing systems, however, it can also be used as a basis for process migration. HelenOS has not been developed with support for application checkpointing in mind; the aim of this thesis is to explore the possibilities of adding such support to HelenOS and provide a prototype implemetation.