Unikernel Linux (UKL)

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Abstract

This report discusses Unikernel Linux (UKL), an approach to introduce a unikernel target into the Linux kernel. The specialized demand of cloud services has recently given rise to a resurgence of library operating systems in the form of unikernels. The authors of the UKL paper want to show that the Linux kernel can be modified to include the benefits of unikernels, while maintaining the ecosystem of applications and maintainers of Linux.

1 Introduction

2 Background

Here you can include a sample figure. Use something like

`\includegraphics[scale=.8]{template}`

to include an encapsulated postscript figure. The *scale* argument can be used for scaling the picture, although it may scale the font incorrectly.

Figure 1: Sample Figure

```
/* code snippet */
while (!sleep)
        sleep++;
```

Listing 1: A sample code snippet

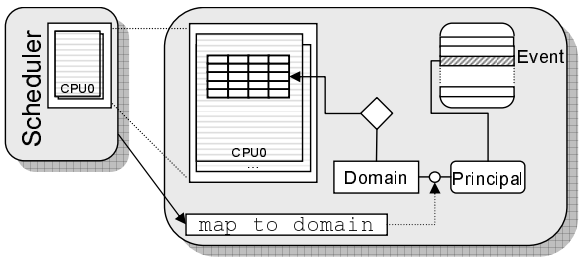

Figure 2: Sample figure automatically from Windows prn.

3 Related Work

Works [1] and [2] are relevant but different.

4 Approach

5 Conclusion

References

[1] P. Barham, B. Dragovic, K. Fraser, S. Hand, T. Harris, A. Ho, R. Neugebauer, I. Pratt, and A. Warfield. Xen and the art of virtualization. In *Proceedings of the 19th Symposium on Operating System Principles*, pages 164–177, Bolton Landing, NY, Oct. 19–22 2003.

[2] I. Pratt, K. Fraser, S. Hand, C. Limpach, A. Warfield, D. Magenheimer, J. Nakajima, and A. Malick. Xen 3.0 and the art of virtualization. In *Proceedings of the 2005 Ottawa Linux Symposium*, pages 65–85, Ottawa, Canada, July 2005.