The Maxine project is run at Oracle Labs and aims at providing a JVM that is binary compatible with the standard JVM while being implemented (almost) completely in Java. Since the open source release of the Maxine VM, it has progressed to the point where it can now run application servers such as Eclipse and Glassfish. With the recent addition of a new compiler that leverages the mature design behind the HotSpot server compiler (aka C2), the VM is on track to deliver performance on par with the HotSpot VM. At the same time, its adoption by VM researchers and enthusiasts is increasing. That is, we believe the productivity advantages of system level programming in Java are being realized. This talk will highlight and demonstrate the advantages of both the Maxine architecture and of meta-circular JVM development in general.

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