

## CodeFuse and Performance Testing

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CodeFuse offers a number of potential routes for performance testing.

### Small-scale concurrency tests

All CodeFuse paid accounts offer multiple concurrent virtual machines (VMs). These VMs simulate real browsers and are not just simulated network traffic. Running multiple CodeFuse tests will enable you to test your application with a number of concurrent virtual users.

### Medium-scale performance tests

By contacting CodeFuse you can rent more virtual machines for a short period of time. This will enable you to run hundreds of tests concurrently and get a better idea about how your application performs under load.

### Generating additional load via web-services

Many modern web applications are built around web services. CodeFuse allows users to call web services in their tests. Because web-service calls are very quick, they are much more cost-efficient than full-UI tests. However, more thought needs to be given to the 'profile' of the calls that you want to make a realistic test. For example, if you have three web-services, it is unlikely that all three will be used in the same quantity.

### Large-scale performance tests

Our recommended method of using CodeFuse for larger scale performance tests that you generate a background load via web-service calls but also add on a layer of UI level tests to run at the same time to see how real browsers are performing.