

## ECMAScript World



### An introduction

We intend to introduce a series of briefs at ECMAScript World concerning Power ECMAScripting.

By Power ECMAScripting we mean implementations of ECMAScript™ that provide far more power than the now, almost traditional, client-side browser-interpreted JavaScript implementations.

We propose to tackle three main areas where there are several orders of magnitude gains in performance taking ECMAScript well beyond the performance of all existing web scripts. These include power gains from:

- server-side implementation
- extended functionality in the server-side environment
- client platforms

### Server-side implementation

We will introduce the means of implementing ECMAScript™ in server-side operations and describe the complete set of tools necessary to achieve in excess of a 60-fold increase in execution speed. The reference tool set used in these briefs and demonstrations will be DScript™ the ECMAScript™ implementation developed by Vanguard Software Corp.

### Extended functionality in the server-side environment

Server-side implementations of ECMAScript™ with extended functionality provide a means of achieving efficient server CPU and memory resource usage. The examples of extended functionality used will be DScript™ primitives and Seel-Telesis Script Library functions (all written in DScript™).

### Client platforms

Browser developers are still competing on the basis of "javascript engines". We will introduce the client platform concept, which replaces browsers, to show how ECMAScript™ can be made to run as fast as native Windows client-side applications and in the case of data-intensive applications running faster than client-side native Windows applications. The example of a stable client platform used to illustrate these concepts will be the Navatec-Voyager built by Navatec.com in 1999, using Virtual Client Technology.

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