Experiments are designed using the built in time command (or by /usr/bin/time if the shortcut does not execute). The tests will use single deletes of empty and non-empty files, and directories. The following tests will display the normal use cases of the rm tool, and possibly indicate any scaling with different sizes.

Single file, empty

|  |  |  |
| --- | --- | --- |
| real | user | system |
| .053s | .0s | .061s |
| .055 | .0 | .031 |
| .055 | .015 | .030 |
| .051 | .0 | .030 |
| .057 | .015 | .015 |

Single file, small (~170 Bytes)

|  |  |  |
| --- | --- | --- |
| .061 | .000 | .015 |
| .060 | .015 | .015 |
| .053 | .0 | .015 |
| .062 | .015 | .015 |
| .059 | .0 | .046 |

Single file, larger (~67KB)

|  |  |  |
| --- | --- | --- |
| 0.073 | .0 | .077 |
| .062 | .030 | .015 |
| .056 | .030 | .0 |
| .02 | .0 | .0 |
| .064 | .015 | .031 |

Directory, empty

|  |  |  |
| --- | --- | --- |
| .060 | .0 | .046 |
| .056 | .0 | .062 |
| .062 | .031 | .015 |
| .054 | .015 | .030 |
| .054 | .015 | .015 |

Directory, 5 items (2 empty, 1 small, 1 larger)

|  |  |  |
| --- | --- | --- |
| .080 | .015 | .031 |
| .023 | .0 | .016 |
| .073 | .031 | .030 |
| .037 | .0 | .015 |
| .047 | .016 | .015 |

The collected data indicates that the difference between file sizes is not a major component in the link/unlink process. The averages generally remain around .05 seconds (.0542, .059, .055, .057, .052) with the larges range of differing times occurring on a full directory, which is not unexpected.

Attempts across partitions have not shown noticeable changes on smaller files, indicating that the copy action needed is not too much more noticeable.