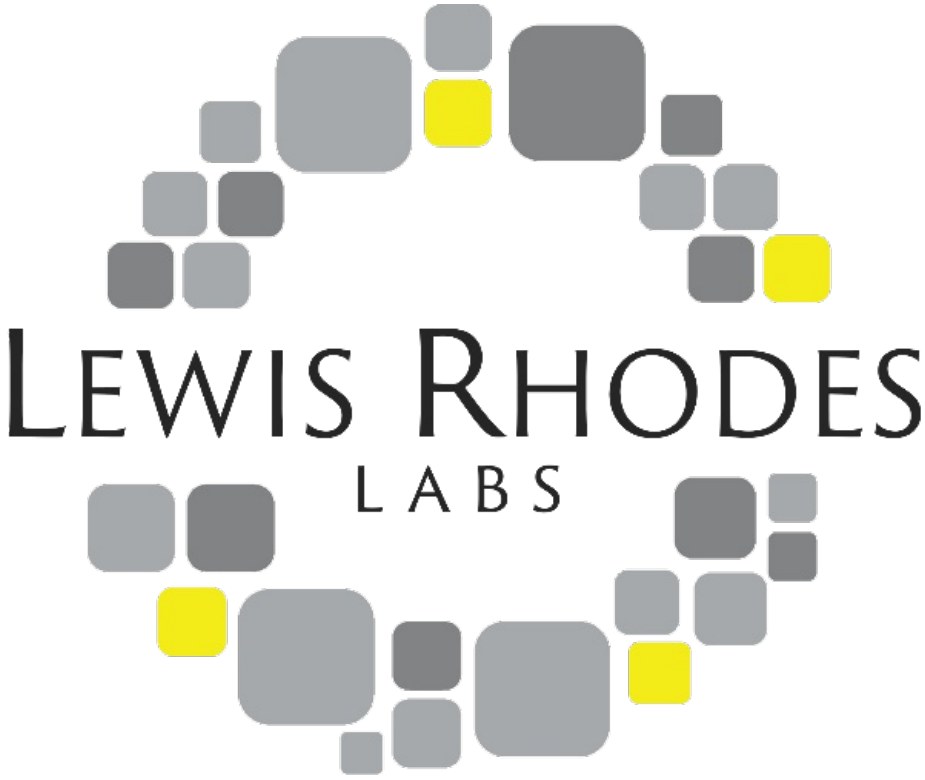

Extreme Search® Manual

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1 Overview

Extreme Search® is a computational storage appliance that enables fast, fixed-throughput regular expression based search of files. NPU*search* is a specific implementation of a neuromorphic processor, invented by LRL, and optimized for search. NPU*search* IP allows all files on an appliance to be searched within 12-25 minutes (depending on model). Appliances can be aggregated to support multiple petabytes of searchable storage, while keeping a maximum search time within 12-25 minutes (depending on model). NPU*search* functionality is exposed through a Python library; users submit a list of regular expressions they want to search for and a list of `glob(2)` patterns of files they want to search. NPU*search* returns a list of files that match one or more of the submitted expressions, as well as the ids of expressions that matched.