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super-powered search algorithms

Every decade only a few technologies dramatically change our day to day lives. **DaBoost technology is one of them.**

The Problem - The quest for higher speed, lower cost, reduced power consumption and general efficiency gains challenge every aspect of technology today and the pace of innovation is being driven by artificial intelligence, big data and hyperconnectivity. **But can future hardware development keep up with these exponentially increasing demands?**

DaBoost has developed an algorithm that changes elementary search behaviour which dramatically increases both speed and performance while reducing resource needs across both hardware and software.

Digital processes can run faster by many orders of magnitude, even on huge files with limited resources and hardware.

DaBoost "parallel multi-pattern" search technology speeds up software and hardware processes vs. current methods.

The basic technology updates "one-by-one pattern scan" or "tree symbols decision" searches into **"parallel multi-pattern"** searches to speed up digital processes by up to 100x using a faster pattern search engine based on unique smart & highly efficient dictionary technology and can handle both text and binary information.

After fast identifying the file hierarchy and file sections using this technology it is much easier to parse the required sections or parallelize the sections parsing. We can make significant impacts to binary as well as text and have identified four initial major market vectors including:

- **BIG Data/AI**
- **Cyber Security**
- **DNA/NGS sequencing**
- **Hardware Acceleration**

This technology can be used inside communication protocols, file or stream parsing, DPI – deep packet inspection filtering and protocol stacks. Hardware modifications can increase speed even more. We currently can identify file modes but will soon be able to manage streaming and block modes.

The ongoing development of basic libraries with broad applications will be delivered along with the tools to easily integrate custom functionality. Both software and hardware companies will be able to license the technology for further development and customization.

We have a working Linux lite version library for 32byte search, max 100 thousand parallel searches and the full version for 2Gigabyte search, max 100 million parallel searches out in Q3 and will support Windows and Mac later in 2022

DaBoost are looking for forward thinking technology companies to develop strategic partnerships

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