Integrated ServicePartners

# DATA CENTER OPTIMIZATION WITH NEUROTUNE.AI

Isolate inefficiencies within your environment before they become an issue!

- ✓ DECREASE MSU/MIPS USAGE
- ✓ DRASTICALLY REDUCE COSTS
- ✓ INCREASE PERFORMANCE

CHALLENGES OVERVIEW

# CURRENT CHALLENGES IN DATA CENTERS

### Increased Demand on Mainframes

Distributed applications are forcing the mainframe to work harder. There is an immense surge in demand and further pressure for the mainframe to deliver more services at ever increasing speeds.

### Impact on C-Level

Mainframes have proven themselves to be secure and reliable processing platforms. New uses and higher demand are driving costs upwards, presenting tough challenges for C-Level executives.

### Significant Usage Fees

Usage fees are a significant component in the overall cost of ownership of a mainframe. Increases in MIPS and MLC costs become an ongoing budget restraint.

### New Technologies

The smartphone and AI generation has CIO's struggling to deliver results and innovation while co-existing with increasing costs controlled by CFO's.

PRODUCT OVERVIEW

# ENTER NEUROTUNE.AI

Neurotune.ai is a suite of optimization tools leveraging artificial intelligence, proprietary algorithms, and over five decades of expertise.

Immediately identifies and enhances inefficient subsystem components within the z/OS mainframe operating environment, adhering to IBM Red Book recommendations.

- Proven Track Record with 2,000+ Audits
- 50+ years of file analysis expertise
- neurotune.ai is non-invasive and risk free.
- Program logic is never altered
- Zero client side software deployment required
- All analysis completed by neurotune.ai off-line
- neurotune.ai never touches your system
- All improvements are 100% tested prior to implementation

OPTIMIZATION OVERVIEW

# Stop paying for CPU you don't need!

Initial analysis is completed in days rather than months or years detailing inefficiencies in z/OS data centers.

Identifies up to 15% I/O waste in every z/OS data center resulting in up to 30% reductions in each engagement.


Traditional "tuning" patches one "CPU leak" at a time. neurotune.ai patches all "leaks" simultaneously achieving immediate ROI .

Immediate performance improvement from optimizing VSAM datasets and DB2/SQL.

Lowers your carbon footprint through reduced power consumption.

TUNING APPROACHES

# TRADITIONAL TUNING VS NEUROTUNE.AI

## Traditional Tuning

- Iterative and labor intensive - file by file - taking months if not years for more complex environments.
- Requires deep analyst involvement.
- Skilled Labor shortage represents constraint.

## neurotune.ai

- Neurotune.ai quickly compares all files at once against our expert database of optimized file settings utilizing proprietary algorithms and developed ratios.
- Neurotune.ai is the analyst. Our proprietary software and expert team take the guess work out of I/O efficiency.

CLIENT OVERVIEW

# When to use neurotune.ai

1

## Data center cost reductions

Reduce CPU consumption and recover storage.

2

## Pre-Migration

Ensure performance, ease the process, and reduce costs on both sides.

3

## In tandem with application modernization

Run faster I/O while running less I/O.

4

## Mergers and acquisitions

Consolidate data centers faster and reduce storage requirements.

5

## Increase performance

Solve for ABENDS, outages and latency issues.

EFFICIENCY GAINS

# CASE STUDY: FORTUNE 25 FINANCIAL INSTITUTION

**Data Center Optimization Strategy**

Use Case: The Merger of 2 Fortune500 Banks triggered the need for consolidating multiple mainframes

## 4PB

### Number of PB Recovered

Recovered over 4PB of Storage

## 10,000

### Number of Batch Time Hours Saved

Achieved a 62% reduction in mainframe run-time, enabling processing of additional jobs held for 24 hours.

## 5,500

### Number of MIPs

Number of annual MIPs Reduction - resulting in Millions Saved Annually

EFFICIENCY GAINS

# CASE STUDY: US HEALTH INSURANCE CARRIER

**Data Center Optimization Strategy**

Use Case: IBM performance study recommends upgrade to bigger mainframe to “fix” performance issues.

## Prior to neurotune.ai analysis

**Problem: Extended batch times, heavy latency and 3+ second response times. IBM recommends mainframe hardware upgrade.**

- Delays causing system to lag impacting SLA compliance and pushing CPU consumption beyond negotiated peaks
- Poor employee and customer application experience

## neurotune.ai called in to resolve issues

**Outcome: Batch window drastically reduced - Millions in CPU consumption eliminated**

- Response times now millisecond level, eliminating all signs of latency.
- No hardware upgrade required
- Accelerated batch processing
- SLA completion
- Enhanced employee and customer experience

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## ISP IS AN INDUSTRY LEADER IN DATA CENTER OPTIMIZATION AND COST REDUCTION TOOLS

with neurotune.ai, there is no competition!

# Thank You for Your Partnership!

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