# DATA**KINETICS**
## Z PERFORMANCE & OPTIMIZATION

# Mainframe Tailored Fit Pricing
## Optimization for Increased Capacity

## YOU'VE MADE THE RIGHT CALL WITH TAILORED FIT PRICING

As you probably know by now, Tailored Fit Pricing (TFP) is the best pricing model for mainframe environments experiencing growing workloads. TFP Is the killer pricing solution for your class of enterprise.

You are no longer impacted by those occasional sharp MSU usage spikes driving up the charges on your monthly bill.

With TFP's Enterprise Consumption Pricing, total consumption is reconciled at the end of the year—in effect, those months with the crazy spikes are normalized into a year-end cost calculation.

The monthly cost is the year's total divided by 12, so those spikes no longer have such a detrimental effect on the monthly bill. Essentially, you pay for what you use at a per-MSU consumption rate.

## SO IS TFP THE FINAL PIECE TO THE PUZZLE?

TFP is a great first step. However, if your workloads are increasing, that usually means that your transaction processing loads are increasing too - consuming your available capacity, and potentially driving up costs for the next year.

Is there anything you can do to augment the benefits of TFP?

The answer is a resounding **YES—**
Mainframe High-Performance In-Memory Technology.

DATA**KINETICS**
Z PERFORMANCE & OPTIMIZATION

50 Hines Road, Suite 240
Ottawa, ON, Canada
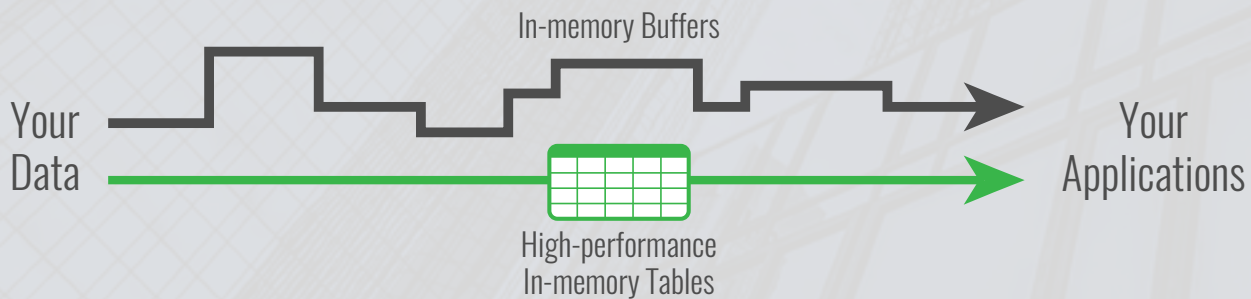K2K 2M5

© DataKinetics 2023

## HIGH-PERFORMANCE IN-MEMORY TECHNOLOGY

Why high-performance in-memory technology?

- Accelerates access to data used most often
- Accelerates applications
- Improves transaction throughput capacity
- Reduces mainframe resource usage, MSU & CPU
- Reduces RTB operational cost, and contributes to deferred future capital costs

DATAKINETICS
Z PERFORMANCE & OPTIMIZATION

50 Hines Road, Suite 240
Ottawa, ON, Canada
K2K 2M5

© DataKinetics 2023

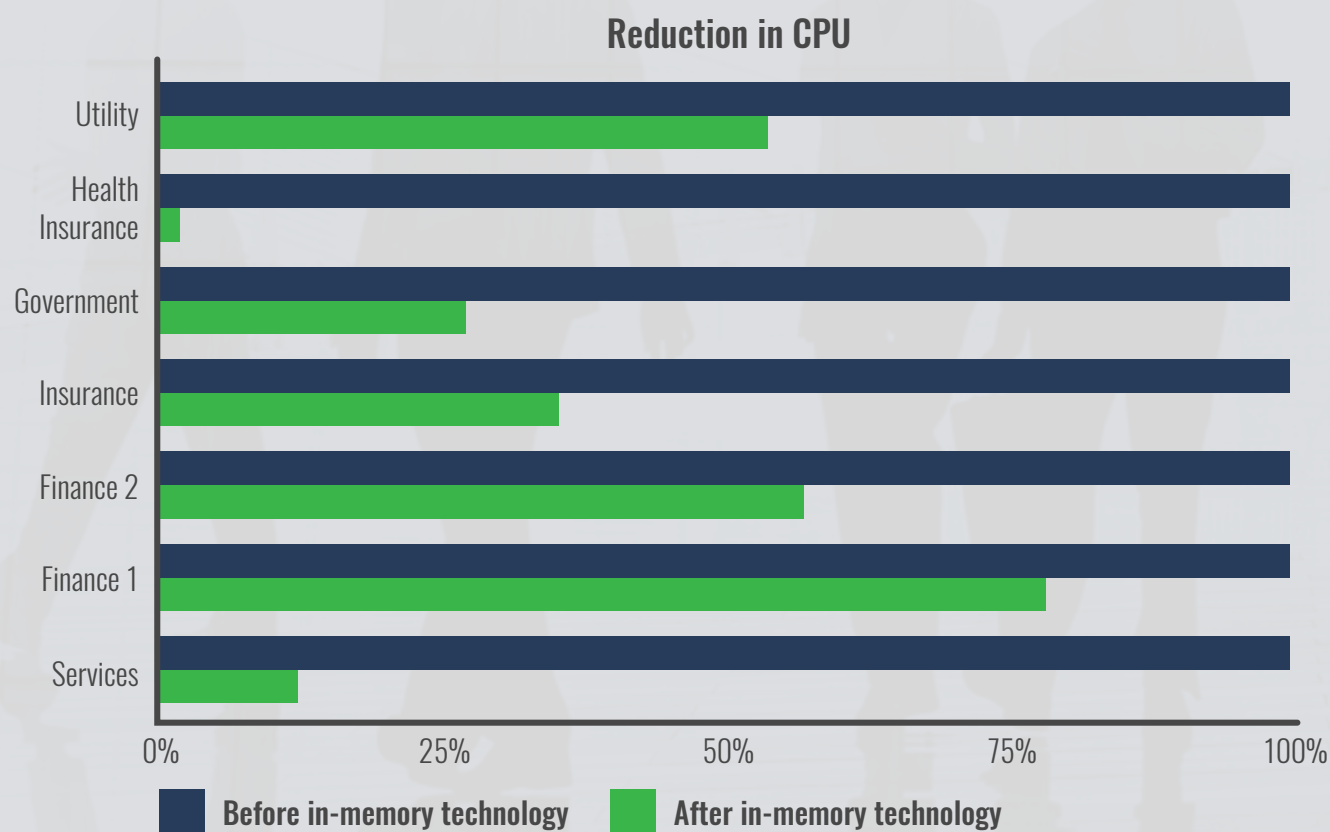## HOW HIGH-PERFORMANCE IN-MEMORY TECHNOLOGY WORKS

- Copy your most-often accessed data into memory
- Access it using a much shorter code path
- Black path: typical code path
  (typ. 10,000 to 100,000 machine cycles)
- Green path: high-performance in-memory code path
  (typ. 400 machine cycles)

In-memory Buffers

Your Data

Your Applications

High-performance
In-memory Tables

**DATAKINETICS**
Z PERFORMANCE & OPTIMIZATION

50 Hines Road, Suite 240
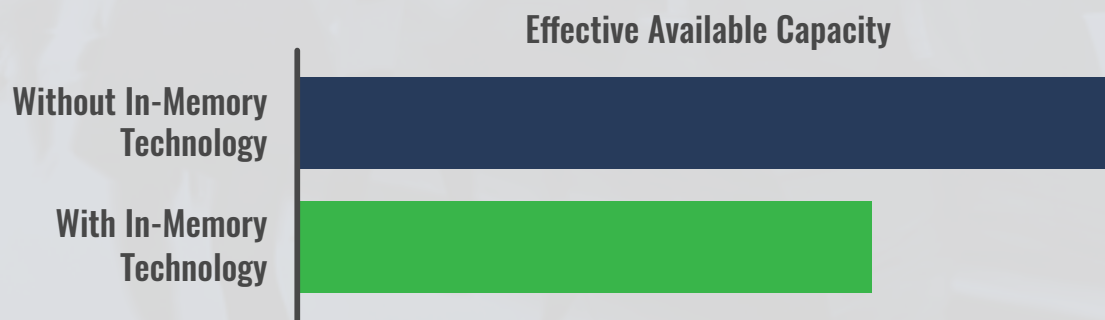Ottawa, ON, Canada
K2K 2M5

## Results: Reduced CPU Usage

Reduced application CPU usage (and associated MSUs)
- Typically reduces operational costs by up to 10%—sometimes much more.
- Typically lowers system upgrade frequency from 4 years to 5 years.

**Reduction in CPU**

| Category | Before in-memory technology | After in-memory technology |
|---|---|---|
| Utility | 100% | ~53% |
| Health Insurance | 100% | ~2% |
| Government | 100% | ~26% |
| Insurance | 100% | ~35% |
| Finance 2 | 100% | ~57% |
| Finance 1 | 100% | ~77% |
| Services | 100% | ~12% |

■ Before in-memory technology   ■ After in-memory technology

DATAKINETICS
Z PERFORMANCE & OPTIMIZATION

50 Hines Road, Suite 240
Ottawa, ON, Canada
K2K 2M5

© DataKinetics 2023

## Results: Improved Mainframe Capacity

- Reducing your MSU and CPU usage
- This "reduced usage" effectively increases your system capacity
- This "new capacity" is applied to your growing workloads
- Reduced CPU can also help to control costs for the following year under TFP

**Effective Available Capacity**

| | |
|---|---|
| **Without In-Memory Technology** | |
| **With In-Memory Technology** | |

DATAKINETICS
Z PERFORMANCE & OPTIMIZATION

50 Hines Road, Suite 240
Ottawa, ON, Canada
K2K 2M5

## SUMMARY

Organizations that deploy High-Performance In-Memory Technology after adopting TFP typically experience the following benefits:

- An immediate reduction in mainframe resource usage, followed by an associated increase in system workload capacity
- Deferment of capital upgrades to the existing mainframe infrastructure, effectively freeing up cash flow
- A rapid payback of 4 months or less, with a high ROI

**DATAKINETICS**
Z PERFORMANCE & OPTIMIZATION

50 Hines Road, Suite 240
Ottawa, ON, Canada
K2K 2M5

© DataKinetics 2023

# THE NEXT STEP

Please contact us for more information—we can send you a more detailed white paper, or alternatively, you can speak to one of our Professional Services staff to discuss your specific challenges. Use the contact information shown above to get started.

# ABOUT US

As the global leader in Data Performance and Optimization Solutions, the world's largest banks, credit card, brokerage, insurance, healthcare, retail and telecommunication organizations rely on DataKinetics to dramatically improve their data throughput and processing.v

Mainframe High-Performance In-Memory Technology enables Fortune 500 companies to:

- Process over a billion mission-critical transactions every day
- Accelerate application processing by up to 98%
- Enjoy "found mainframe workload capacity"
- Defer capital upgrades to the existing mainframe infrastructure

## DATAKINETICS
### Z PERFORMANCE & OPTIMIZATION

+1.800.267.0730 | info@dkl.com