



**Eccox/Advisor for DB2**

**Improving the Performance of the Enterprise**

- Founded in 1992
- \$14 Million Revenue Per Year
- 96 employees worldwide
- Over 35,000 users of Eccox Solutions

## **International Offices**

- Headquarters: São Paulo (Brazil)
- North America: New Jersey (United States)
- Europe: Cologne (Germany)



## Benefits

- Reduces DB2 contention problems
- Increases life span of existing hardware
- Reduces software costs
- Optimizes DB2 infrastructure
- Improves Applications Availability
- Extremely low Mainframe OVERHEAD (1-2%)
- Non intrusive to operating system and DB2

## **Eccox/Advisor is an “Automated Assistant” to:**

- Helps DBA predict future usage requirements
- Allows DBA to satisfy service level agreements (SLAs)
- DBAs can compare application usage profiles
- Analyze historic trends

## Customers



*Nossa Caixa*



**CAIXA**



*Telefonica*



## Profitability Ranking

POSITION	Name	Eccox Products	MIPS	# Online Transactions per Day	ASSETS (In thousands of US\$)	Industry
1	Bradesco	Eccox/QC COBOL - Eccox/QC DB2 - Eccox/ADVISOR	75000	250 M	<b>265 B</b>	Financial
3	Itaú Unibanco	Eccox/QC COBOL - Eccox/QC DB2 - Eccox/ADVISOR	83000	150 M	<b>295 B</b>	Financial
4	Bank of Brazil	Eccox/ADVISOR	135000	310 M	<b>306 B</b>	Financial
13	Santander Brazil	Eccox/QC COBOL - Eccox/QC DB2	39000	45 M	<b>170 B</b>	Financial

SOURCE: Editora Globo S/A &  
2009 Investimentos e Noticias

## Success Story 1 - Bank

- 22 Billion Dollars Assets
- 5.7 Million clients
- 15,155 employees
- 559 bank branches
- 1,290 third party payment offices
- 13,000 MIPS

### POC Environment:

- On-line Production Environment (Peak)
- Focus over all DB2 Applications
- 6,500 MIPS

### Eccox/Advisor System Analysis:

- 2 Sub-Programs with table scan
- Called by hundreds of transactions

### Modifications made with Eccox/Advisor for DB2:

- New Index

## Success Story 1 - Results - Bank

	Before	After
Total CPU Seconds	8,640	19
Total MIPS Consumed	1,290	4

- **Result: CPU upgrade avoided** - Customer was able to achieve a savings in 2 days after the initial product deployment
    - **Savings in 2 years: US\$ 25,000,000\***
- \* Based on customer's estimated internal costs

## Success Story 2 - Bank

- 256 Billion Dollars Assets
- 106,770 employees
- 2,052 Branches
- 85,000 MIPS

### POC Environment:

Eccox/Advisor for DB2 was used to analyze on-line production environment across two sites consuming 11,500 MIPS

- **Site 1**
  - 1 Program with High CPU and LOG Utilization (Table Scan)
  - Modifications: new index and DB2 Table Changes
- **Site 2**
  - 12 Programs with Scan and SQL Problems (High CPU Usage) and Mismatch
  - Modifications: Simple SQL and Index Correction

## Success Story 2 - Results - Bank

	MIPS Analyzed	MIPS Saved	Percentage Saved
Site 1	6,500	638	10%
Site 2	5,000	1,581	31%
Total	11,500	2,219	21%

**80% LOG reduction in one transaction**

Customer was able to achieve these savings within 3 days of deployment



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