

# ZAAP Offload Framework – An Approach to Maximize ZAAP Utilization

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# TCS - Overview of IBM Center of Excellence

**60,000+** professionals working on Mainframe Technologies

**200,000+** person-years of project experience on Mainframe platform

**IBMs Largest Global SI**



**Z10 EC 2097-402**

**ZIIP, ZAAP and IFL & Latest Software Stacks**

**Research, Solution Building & Training**

Competency	Developers	Designers	Solution Architects
ZOS,COBOL,VSAM,JCL	11000	10500	9600
DB2	4400	3280	2900
COBOL	3600	3350	2800
IMS	900	800	700
CICS	800	800	700
IDMS	900	900	800
Assembler	200	200	170
PL/1	170	160	140
Natural/Adabas	150	140	120

# Overview of IBM Specialty Engines

IBM has made Architectural changes to System Z Platform through Cost Effective Specialty Engines

## Key Challenges

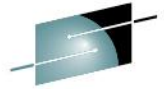
- High General Purpose Licensing Cost
- Licensing based on MSU Usage
- All I/O Operations will consume MSU
- BFS at 10000 MIPS – Operating Cost = 40 M to 100 M USD

## Key Challenges

- Average Growth of 20 Percent MSU/ Year
- Cost of MIPS between 4000 USD - 15000 USD
- 90 % data processed using COBOL
- I/O Intensive applications/ DB in COBOL consume high MIPS

## Objectives

- Introduction of Specialty Engines to execute specific workloads
- This would reduce the load on the General Purpose CP
- Most of COBOL applications can be moved to these cheaper processors and cost reduced
- One time investment
- Can be zIIP (Db2 Workloads), ZAAP (Java) or IFL (zLINUX)



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# ZAAP Offload Framework – Executive Summary

**THIS ARCHITECTURE CANNOT BE SHARED, HENCE APPRECIATE IF YOU CAN MAIL US FOR MORE DETAILS ON THIS THREAD.**



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# Thank You

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