# 1 全局变量

global CICSVERSION ICS版本号

global TCLASSNAME

global DSARATIOTHRES

global EDSARATIOTHRES

global QRDISPRATIOTHRES

global ENQIMMESUCCESSTHRESHOLD

global APPLIDPATTERN

global STATISTICS\_DATE

global PEAK\_INTERVAL

global TMFlag

global DSFlag

global LGFlag

global DBFlag

global NQFlag

global TSQFlag

global TDQFlag

global SMFlag

global CONFlag

global DUFlag

TCLASSNAME = "\*TOTALS\*"

ENQNAME = "\*TOTALS\*"

CICSVERSION = "6.8.0" 默认版本号

DSARATIOTHRES = 90.00

EDSARATIOTHRES = 90.00

QRDISPRATIOTHRES = 50.00

ENQIMMESUCCESSTHRESHOLD = 90.00

STATISTICS\_DATE = '' 采集时间

PEAK\_INTERVAL = ''

TMFlag = 0

TCFlag = 0

DSFlag = 0

LGFlag = 0

DBFlag = 0

NQFlag = 0

TSQFlag = 0

TDQFlag = 0

SMFlag = 0

CONFlag = 0

DUFlag = 0

TCLASSNAME = config["TClassName"]

ENQNAME = config["ENQName"]

DSARATIOTHRES = float(config["DSARatioThreshold"])

EDSARATIOTHRES = float(config["EDSARatioThreshold"])

QRDISPRATIOTHRES = float(config["QRDispRatioThreshold"])

ENQIMMESUCCESSTHRESHOLD = float(config["ENQImmeSuccessThreshold"])

APPLIDPATTERN = config["ApplidPattern"] APPLID正则表达式

IntItem = IntervalItem() 间隔Item

IntRep = IntervalReport()

IntRep.AppendItem(IntItem)

TMRep = TransactionManagerReport()

DSRep = DispatcherReport()

NQRep = EnqueueReport()

SMRep = StorageManagerReport()

LGRep = LogManagerReport()

DBRep = DB2Report()

DURep = DumpReport()

TSQRep = TSQReport()

TDQRep = TDQReport()

CONRep = ConnectionReport()

ReportType 0：Iterval Report 1： End of Day 2：REQUESTED

IntervalItem

\_\_CSVString = '' #CSV string

Applid = '' #CICS Application ID

Date = '' #Data collection data

ResTime = '' #Last rest time

ColTime = '' #Data collection time

TMItem = TransactionManagerItem() 交易管理

DSItem = DispatcherItem() 分发

NQItem = EnqueueItem() 队列

SMItem = StorageManagerItem() 存储管理

LGItem = LogManagerItem() 日志管理

DCItem = DB2CONNItem() 数据管理

DUItem = DumpItem() ？

TSQItem = TSQItem() ？

TDQItem = TDQItem() ？

CONItem = ConnectionItem() 连接管理

def \_\_init\_\_(self) 初始化每个对象

def UpdateIntervalInfo(self) 更新每个对象

def IntervalFullJSON(self) 转化全部的json

def IntervalBriefJSON(self) 转化简要的json

IntervalItemListByInterval

ResTimeMin = '' 重启分钟数。因为不同app秒数不一样。

ColTimeMin = '' 收集分钟数。

ItemList = list() ？

TotTranNum = 0 总交易量

ScoreTransaction = 100 交易分数

RiskTransaction = ''

ScoreDispatch = 100 分发分数

RiskDispatch = ''

ScoreStorage = 100 存储分数

RiskStorage = ''

ScoreData = 100 数据分数

RiskData = ''

ScoreQueue = 100 队列分数

RiskQueue = ''

ScoreOther = 100 其他分数

RiskOther = ''

global DSARATIOTHRES

global EDSARATIOTHRES

global QRDISPRATIOTHRES

global ENQIMMESUCCESSTHRESHOLD

global TMFlag

global TCFlag

global DSFlag

global LGFlag

global DBFlag

global NQFlag

global TSQFlag

global TDQFlag

global SMFlag

global CONFlag

global DUFlag

def \_\_init\_\_(self):

def AppendItem(self,IntervalItem): 增加一个item

def InsightsTM(self):

def InsightsTC(self):

def InsightsDS(self):

def InsightsSM(self):

def InsightsLG(self):

def InsightsDB(self):

def InsightsNQ(self):

def InsightsTSQ(self):

def InsightsTDQ(self):

def InsightsCON(self):

def InsightsDU(self):

def InsightsRiskSummary(self):

def IntervalScoreJSON(self):

def HealthSummary(self):

TransactionManagerItem:

\_\_CSVString = '' #CSV string

Applid = '' #CICS Application ID

Date = '' #Data collection data

ResTime = '' #Last rest time

ColTime = '' #Data collection time

TotTran = 0 #Total transaction numer (User + System)

MXT = 0 #MXT setting MXT: MAXTASKS

MXTTimeRch = 0 #MXT reach time

PkQued = 0 #Peak queued task number

PkActv = 0 #Peak active task number

TotlActUsr = 0 #Total active user transaction number

TotlDly = 0 #Total Delayed transactin number

MXTRatio = 0.0 #Peak active/MXT

IntervalValue = 0.0 #Interval in seconds

TClassItemList = list() #TClass list

global TCLASSNAME

def \_\_init\_\_(self)

def AppendTClassItem(self,TCItem)

def PickedTClassItem(self)

def TMItemCSV(self):

TransactionManagerItem:

\_\_CSVString = '' CSV

Applid = '' CICS应用ID

Date = '' 数据采集日期

ResTime = '' 上次更新时刻

ColTime = '' 数据采集时间

TotTran = 0 总交易量（系统+用户）

MXT = 0 最大交易量限制 MXT：MAXTASKS

MXTTimeRch = 0 达到最大交易量的次数

PkQued = 0 排队用户交易量的峰值

PkActv = 0 活跃用户交易量的峰值

TotlActUsr = 0 活跃用户交易量的总数

TotlDly = 0 最大交易量延迟用户交易量的总数

MXTRatio = 0.0 最大交易量比例 =PkActv/MXT

IntervalValue = 0.0 数据采集的秒数

TClassItemList = list() #TClass list

class TClassItem

\_\_CSVString = '' CSV

Applid = '' CICS应用ID

Date = '' 数据采集日期

ResTime = '' 上次更新时刻

ColTime = '' 数据采集时间

TClassName = '' 交易名称

TClassDef = 0 预设交易数量

MaxAct = 0 最大交易数量

PrgThrs = 0 清零阈值

Attaches = 0 附属交易

AcptImm = 0 立即处理的交易

PrgImm = 0 立即清零的交易

Queued = 0 排队的交易

PrgQd = 0 排队时清零的交易

QuedTime ='' 排队时间

PckAct = 0 活跃峰值

PckQued = 0 排队峰值

MaxActTimes = 0 达到最大活跃的次数

PrgThrsTimes = 0 达到清零阈值的次数

def TClassItemCSV(self): 定义CSV格式

class DispatcherItem:

\_\_CSVString = '' #CSV string

Applid = '' #CICS Application ID

Date = '' #Data collection data

ResTime = '' #Last rest time

ColTime = '' #Data collection time

ASCPU = '' #Address space CPU time

ASSRB = '' #Address space SRB time

ICV = 0 #ICV setting

ICVR = 0 #ICVR setting

QRDsp = '00:00:00' #QR dispatch time

QRCPU = '00:00:00' #QR CPU time

QRCPUUtilRatio = 0.0 #QR CPU/Interval

QRDispUtilRatio = 0.0 #QR Disp/Interval

QRDispRatio = 0.0 #QR CPU/dispatch

L8Dsp = '00:00:00' #L8 dispatch time

L8CPU = '00:00:00' #L8 CPU time

L8CPUUtilRatio = 0.0 #L8 CPU/Interval

L8DispUtilRatio = 0.0 #L8 Disp/Interval

L8DispRatio = 0.0 #L8 CPU/dispatch

ASCPUUtilRatio = 0.0 #Address space TCB CPU/Interval

SRBCPUUtilRatio = 0.0 #Address space SRB CPU/Interval

CPUPerUsrTran = 0.0 #CPU time (TCB+SRB) /User transaction

PkOpTCB = 0 #Peak open TCB usage

MAXOpTCB = 0 #Max open TCB usage

OpTCBRatio = 0 #Peak Open TCB/MAXOPENTCB

ASCPUV = 0.0 #Address space CPU in seconds

ASSRB = 0.0 #Address space SRC in seconds

QRDspQueuePk = 0 #Peak QR dispatchable queue length

QRDspQueueAvg = 0.00 #Average QR dispatchable queue length

def DispatcherItemCSV(self):

class DispatcherItem:

\_\_CSVString = '' #CSV string

Applid = '' #CICS Application ID

Date = '' #Data collection data

ResTime = '' #Last rest time

ColTime = '' #Data collection time

ASCPU = '' #Address space CPU time

ASSRB = '' #Address space SRB time

ICV = 0 #ICV setting

ICVR = 0 #ICVR setting

QRDsp = '00:00:00' #QR dispatch time

QRCPU = '00:00:00' #QR CPU time

QRCPUUtilRatio = 0.0 #QR CPU/Interval

QRDispUtilRatio = 0.0 #QR Disp/Interval

QRDispRatio = 0.0 #QR CPU/dispatch

L8Dsp = '00:00:00' #L8 dispatch time

L8CPU = '00:00:00' #L8 CPU time

L8CPUUtilRatio = 0.0 #L8 CPU/Interval

L8DispUtilRatio = 0.0 #L8 Disp/Interval

L8DispRatio = 0.0 #L8 CPU/dispatch

ASCPUUtilRatio = 0.0 #Address space TCB CPU/Interval

SRBCPUUtilRatio = 0.0 #Address space SRB CPU/Interval

CPUPerUsrTran = 0.0 #CPU time (TCB+SRB) /User transaction

PkOpTCB = 0 #Peak open TCB usage

MAXOpTCB = 0 #Max open TCB usage

OpTCBRatio = 0 #Peak Open TCB/MAXOPENTCB

ASCPUV = 0.0 #Address space CPU in seconds

ASSRB = 0.0 #Address space SRC in seconds

QRDspQueuePk = 0 #Peak QR dispatchable queue length

QRDspQueueAvg = 0.00 #Average QR dispatchable queue length

def DispatcherItemCSV(self):