

[ SMART\_index.vbs ]

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Const wbemFlagReturnImmediately = &h10
Const wbemFlagForwardOnly = &h20

Set args = WScript.Arguments
strComputer = args.item(0)
strUser = args.item(1)
strPassword = args.item(2)

command=""
field=""
index=1
selected = -1
Dim array(2)

Set args = Wscript.Arguments
If args.length > 0 Then
    command = args(3)
    If args(3) = "query" Then
        field = args(4)
    End If
    If args(3) = "get" Then
        field = args(4)
        selected = args(5)
    End If
End If

Dim value(256)
Dim threshold(256)
Dim worst(256)

If strComputer = "localhost" Then
    ' localhost
    Set objWMIService = GetObject("winmgmts:¥¥" & strComputer & "¥root¥WMI")
Else
    ' remote host
    Set objSWbemLocator = CreateObject("WbemScripting.SWbemLocator")
    Set objWMIService = objSWbemLocator.ConnectServer(strComputer, "root¥WMI",
strUser,
strPassword)
End If

Set collItems = objWMIService.ExecQuery("SELECT * FROM
MSStorageDriver_FailurePredictData", "WQL", wbemFlagReturnImmediately +
wbemFlagForwardOnly)
For Each objItems in collItems
    For i = 2 To UBound(objItems.VendorSpecific) Step 12
        value(objItems.VendorSpecific(i)) = objItems.VendorSpecific(i+3)
        worst(objItems.VendorSpecific(i)) = objItems.VendorSpecific(i+4)
        If objItems.VendorSpecific(i) = 194 Then ' temperture
            value(objItems.VendorSpecific(i)) = objItems.VendorSpecific(i+5)
        End If
    Next
Next

Set collItems = objWMIService.ExecQuery("SELECT * FROM
MSStorageDriver_FailurePredictThresholds", "WQL", wbemFlagReturnImmediately +
wbemFlagForwardOnly)
For Each objItems in collItems
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For i = 2 To UBound(objItems.VendorSpecific) Step 12
    threshold(objItems.VendorSpecific(i)) = objItems.VendorSpecific(i+1)
    If objItems.VendorSpecific(i) = 194 Then 'temperature
        threshold(objItems.VendorSpecific(i)) =
objItems.VendorSpecific(i+5)
    End If
Next
Next

For i = 1 To UBound(value)
    array(0) = index
    Select Case field
        Case "index"    array(1) = index
        Case "id"       array(1) = i
        Case "Caption"
            Select Case i
                Case "1"    array(1) = "Raw Read Error Rate"
                Case "2"    array(1) = "Throughput Performance"
                Case "3"    array(1) = "Spin Up Time"
                Case "4"    array(1) = "Start/Stop Count"
                Case "5"    array(1) = "Reallocated Sectors Count"
                Case "6"    array(1) = "Read Channel Margin"
                Case "7"    array(1) = "Seek Error Rate"
                Case "8"    array(1) = "Seek Time Performance"
                Case "9"    array(1) = "Power-On Hours"
                Case "10"   array(1) = "Spin Retry Count"
                Case "11"   array(1) = "Calibration Retry Count"
                Case "12"   array(1) = "Power Cycle Count"
                Case "13"   array(1) = "Soft Read Error Rate"
                Case "190"  array(1) = "Temperature(Celsius)"
                Case "191"  array(1) = "G-Sense Error Rate"
                Case "192"  array(1) = "Power-Off Retract Count"
                Case "193"  array(1) = "Load Cycle Count"
                Case "194"  array(1) = "Temperature(Celsius)"
                Case "195"  array(1) = "Hardware ECC recovered"
                Case "196"  array(1) = "Reallocated Event Count"
                Case "197"  array(1) = "Current Pending Sector Count"
                Case "198"  array(1) = "Off-Line Scan Uncorrectable Sector Count"
                Case "199"  array(1) = "UltraDMA CRC Error Count"
                Case "200"  array(1) = "Write Error Rate (Multi Zone Error Rate)"
                Case "201"  array(1) = "Soft Read Error Rate"
                Case "202"  array(1) = "TA Increase Count"
                Case "203"  array(1) = "Run Out Cancel"
                Case "204"  array(1) = "Soft ECC Correction"
                Case "205"  array(1) = "Thermal Asperity Rate"
                Case "206"  array(1) = "Flying Height"
                Case "207"  array(1) = "Spin High Current"
                Case "208"  array(1) = "Spin Buzz"
                Case "209"  array(1) = "Offline Seek Performance"
                Case "210"  array(1) = "Vibration During Write"
                Case "211"  array(1) = "Vibration During Read"
                Case "212"  array(1) = "Shock During Write"
                Case "220"  array(1) = "Disk Shift"
                Case "221"  array(1) = "G-Sense Error Rate?"
                Case "222"  array(1) = "Loaded Hours"
                Case "223"  array(1) = "Load/Unload Retry Count"
                Case "224"  array(1) = "Load Friction"
                Case "226"  array(1) = "Load-in Time"
            End Select
        End Select
    End Select
Next
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[ SMART\_index.vbs ]

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Case "227" array(1) = "Torque Amplification Count"
Case "228" array(1) = "Power-Off Retract Count"
Case "230" array(1) = "GMR Head Amplitude"
Case "240" array(1) = "Head Flying Hours"
Case "250" array(1) = "Read Error Retry Rate"
Case Else array(1) = "Unknown"
End Select
Case "value" array(1) = value(i)
Case "threshold" array(1) = threshold(i)
Case "worst" array(1) = worst(i)
Case Else array(1) = ""
End Select

If value(i) <> "" and threshold(i) <> "" Then
  Select Case command
    Case "index" Wscript.Stdout.WriteLine array(0)
    Case "query" Wscript.Stdout.WriteLine array(0) & "!" & array(1)
    Case "get" If selected = FormatNumber(index, 0, -1, 0, 0) Then
Wscript.Stdout.Write array(1) End
  If
    End Select
    index = index + 1
  End If
Next
```