TSystemInfo Component

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The TSystemInfo component can be used to obtain information about the system the application is running on. It is designed as a visual component so that this information can also be viewed in the design environment. All the properties are read only.

Properties:

CompanyName Property

The CompanyName property returns the string that was entered for Company Name when Windows was installed. This property is read only.

ContigFreeHeap Property

The ContigFreeHeap property returns the amount of contiguous free heap. This is the amount of free memory that is all together in one large chunk. This property is read only.

CoProPresent Property

The CoProPresent property returns True if a Math Co-Processor exists on the system. If a Math Co-Processor does not exist, then it returns False. This property is read only.

CPU Property

The CPU property returns a value for the type of processor that is present on the system. This property is read only.

These are the possible values for CPU.

ValueMeaningi8086CPUAn 8086 processori286CPUA 80286 processori386CPUA 80386 processori486CPUA 80486 processoriPentiumCPUA Pentium processor

CPUString Property

The CPUString property returns the type of processor as a string. This property is read only.

These are the possible values of CPUString:

<u>Value</u>	<u>Meaning</u>
8086	An 8086 processor
80286	A 80286 processor
80386	A 80386 processor
80486	A 80486 processor
Pentium	A Pentium processor
P????	A Future processor

DiskFree Property

The DiskFree property for the TSystemInfo component returns the total amount of free space on

a drive on the system. It returns values for all possible drives (A - Z). There are sub-properties for this property to provide the amount free for each drive. Each sub-property returns a value of type LongInt. The sub-properties are defined as DiskA through DiskZ. If a drive for a particular letter is not found on the system, the value returned is -1. This is also returned if no diskette is inserted into drive A or no CDROM is inserted into the CDROM drive.

DiskTotal Property

The DiskTotal property for the TSystemInfo component returns the total size of a drive on the system. It returns values for all possible drives (A - Z). There are sub-properties for this property to provide the total for each drive. Each sub-property returns a value of type LongInt. The sub-properties are defined as DiskA through DiskZ. If a drive for a particular letter is not found on the system, the value returned is -1. This is also returned if no diskette is inserted into drive A or no CDROM is inserted into the CDROM drive.

DiskType Property

The DiskType property for the TSystemInfo component returns the type of a drive on the system. It returns values for all possible drives (A - Z). There are sub-properties for this property to provide the type for each drive. Each sub-property returns a one of the types described below. The sub-properties are defined as DiskA through DiskZ. If a drive for a particular letter is not found on the system, the value returned is dtUnknown.

These are the possible values of DiskType:

Value Meaning dtCDROM A CDROM drive dtFixed A Fixed drive dtFloppy A Floppy drive A Network drive dtNetwork dtNoDrive No drive attached dtRAM A RAM drive dtUnknown Drive is not known

DOSVersion Property

The DOSVersion property for the TSystemInfo component returns the Version of DOS running on the system. This property is read only.

FreeHeap Property

The FreeHeap property for the TSystemInfo component returns the total amount of free space on the heap. This is the total amount of free memory available. This property is read only.

Mode Property

The Mode property for the TSystemInfo component returns the mode that Windows is running in. This property is read only.

These are the possible values of Mode:

<u>Value</u> <u>Meaning</u>

wmEnhanced Windows is running in

386 Enhanced mode.

wmStandard Windows is running in

Standard mode.

PcntFreeGDIRes Property

The PcntFreeGDIRes property for the TSystemInfo component returns the percentage of free GDI (Graphics Display Interface) resources. This property is read only.

PcntFreeSystemRes Property

The PcntFreeSystemRes property for the TSystemInfo component returns the percentage of free System resources. This property is read only.

PcntFreeUserRes Property

The PcntFreeUserRes property for the TSystemInfo component returns the percentage of free User resources. This property is read only.

ScreenHeight Property

The ScreenHeight property for the TSystemInfo component returns the height of the Windows system screen in pixels. This property is read only.

ScreenPixelsPerInch Property

The ScreenPixelsPerInch property for the TSystemInfo component returns the number of pixels per inch of the Windows system screen. This property is read only.

ScreenWidth Property

The ScreenWidth property for the TSystemInfo component returns the width of the Windows system screen in pixels. This property is read only.

SystemDirectory Property

The SystemDirectory property for the TSystemInfo component returns the Windows system directory. This property is read only.

TasksRunning Property

The TasksRunning property for the TSystemInfo component returns the number of tasks currently running on the system. This property is read only.

TaskNames Property

The TaskNames property for the TSystemInfo component returns a list of the names of the tasks currently running on the system. Since this property is made from a TStringList, it is accessed the same as any TStringList. But the write properties only write to a dummy variable that is completely useless to the component. Therefore this property is read only. See the Delphi help for TStringList to find the methods and properties available for this property. Since this property shows task names that are currently running, it needs to be updated before it is read so that it is current. This is done with the UpdateTaskNames method.

TempDrive Property

The TempDrive property for the TSystemInfo component returns the Windows temporary drive letter. This property is read only.

UserName Property

The UserName property for the TSystemInfo component returns the name entered for User Name when Windows was installed. This property is read only.

WindowsDirectory Property

The WindowsDirectory property for the TSystemInfo component returns the main Windows directory. This property is read only.

Windows Version Property

The WindowsVersion property for the TSystemInfo component returns the version of Windows on the system. This property is read only.

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Types:

TCPUType Type

The TCPUType type defines the set of values of types of processors currently available. The TCPUType type is used by the CPU property.

TDiskFree Type

The TDiskFree type is a class that returns the amount of Free drive space on each possible drive on a system (A - Z). Each of the properties returns a value of type LongInt;

Sub-properties are DiskA, DiskB, DiskC...DiskZ. These correspond with the disks available on the system.

TDiskTotal Type

The TDiskTotal type is a class that returns the total amount of drive space on each possible drive on a system (A - Z). Each of the properties returns a value of type LongInt;

Sub-properties are DiskA, DiskB, DiskC...DiskZ. These correspond with the disks available on the system.

TDiskType Type

The TDiskType type is a class that returns the type of each possible drive on a system (A - Z). Each of the properties returns a value of type TDriveType.

Sub-properties are DiskA, DiskB, DiskC...DiskZ. These correspond with the disks available on the system.

TDriveType Type

The TDriveType type defines the set of values a drive type can have. The TDriveType type is used by the TDiskType type.

TWinMode Type

The TWinMode type defines the set of values of possible modes Windows can run in. The TWinMode type is used by the Mode type.

Methods:

UpdateTaskNames Method

The UpdateTaskNames method for the TSystemInfo component updates the TaskNames property with the names of the tasks that are currently running on the system. This method should be called before reading the TaskNames property so that the list of tasks is up-to-date. Otherwise the list of task names may not accurately reflect what is running on the system.