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# -*- coding: utf-8 -*-

"""
VirtualBox COM/XPCOM constants.

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"""

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"""
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"""

__version__ = "$Revision: 106555 $";

class VirtualBoxReflectionInfo:
    """
    Enum constants for the various python styles.
    """

    def __init__(self, fIsSym):
        self.__fIsSym = fIsSym

    __dValues = {
        'SettingsVersion': {
            'Null': 0,
            'v1_0': 1,
            'v1_1': 2,
            'v1_2': 3,
            'v1_3pre': 4,
            'v1_3': 5,
            'v1_4': 6,
            'v1_5': 7,
            'v1_6': 8,
            'v1_7': 9,
            'v1_8': 10,
            'v1_9': 11,
            'v1_10': 12,
            'v1_11': 13,
        }
    }

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        'v1_12': 14,
        'v1_13': 15,
        'v1_14': 16,
        'v1_15': 17,
        'v1_16': 18,
        'v1_17': 19,
        'Future': 99999,
    },
    'AccessMode': {
        'ReadOnly': 1,
        'ReadWrite': 2,
    },
    'MachineState': {
        'Null': 0,
        'PoweredOff': 1,
        'Saved': 2,
        'Teleported': 3,
        'Aborted': 4,
        'Running': 5,
        'Paused': 6,
        'Stuck': 7,
        'Teleporting': 8,
        'LiveSnapshotting': 9,
        'Starting': 10,
        'Stopping': 11,
        'Saving': 12,
        'Restoring': 13,
        'TeleportingPausedVM': 14,
        'TeleportingIn': 15,
        'FaultTolerantSyncing': 16,
        'DeletingSnapshotOnline': 17,
        'DeletingSnapshotPaused': 18,
        'OnlineSnapshotting': 19,
        'RestoringSnapshot': 20,
        'DeletingSnapshot': 21,
        'SettingUp': 22,
        'Snapshotting': 23,
        'FirstOnline': 5,
        'LastOnline': 19,
        'FirstTransient': 8,
        'LastTransient': 23,
    },
    'SessionState': {
        'Null': 0,
        'Unlocked': 1,
        'Locked': 2,
        'Spawning': 3,
        'Unlocking': 4,
    },
    'CPUPropertyType': {
        'Null': 0,
        'PAE': 1,
        'LongMode': 2,
        'TripleFaultReset': 3,
        'APIC': 4,
        'X2APIC': 5,
        'IBPBOnVMEExit': 6,
        'IBPBOnVMEEntry': 7,
    },

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    'SpecCtrl': 9,
    'SpecCtrlByHost': 10,
    'L1DFlushOnEMTScheduling': 11,
    'L1DFlushOnVMEEntry': 12,
  },
  'HWVirtExPropertyType': {
    'Null': 0,
    'Enabled': 1,
    'VPID': 2,
    'NestedPaging': 3,
    'UnrestrictedExecution': 4,
    'LargePages': 5,
    'Force': 6,
  },
  'ParavirtProvider': {
    'None': 0,
    'Default': 1,
    'Legacy': 2,
    'Minimal': 3,
    'HyperV': 4,
    'KVM': 5,
  },
  'FaultToleranceState': {
    'Inactive': 1,
    'Master': 2,
    'Standby': 3,
  },
  'LockType': {
    'Null': 0,
    'Shared': 1,
    'Write': 2,
    'VM': 3,
  },
  'SessionType': {
    'Null': 0,
    'WriteLock': 1,
    'Remote': 2,
    'Shared': 3,
  },
  'DeviceType': {
    'Null': 0,
    'Floppy': 1,
    'DVD': 2,
    'HardDisk': 3,
    'Network': 4,
    'USB': 5,
    'SharedFolder': 6,
    'Graphics3D': 7,
  },
  'DeviceActivity': {
    'Null': 0,
    'Idle': 1,
    'Reading': 2,
    'Writing': 3,
  },
  'ClipboardMode': {
    'Disabled': 0,
    'HostToGuest': 1,
  },

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        'GuestToHost': 2,
        'Bidirectional': 3,
    },
    'DnDMode': {
        'Disabled': 0,
        'HostToGuest': 1,
        'GuestToHost': 2,
        'Bidirectional': 3,
    },
    'Scope': {
        'Global': 0,
        'Machine': 1,
        'Session': 2,
    },
    'BIOSBootMenuMode': {
        'Disabled': 0,
        'MenuOnly': 1,
        'MessageAndMenu': 2,
    },
    'APICMode': {
        'Disabled': 0,
        'APIC': 1,
        'X2APIC': 2,
    },
    'ProcessorFeature': {
        'HWVirtEx': 0,
        'PAE': 1,
        'LongMode': 2,
        'NestedPaging': 3,
    },
    'FirmwareType': {
        'BIOS': 1,
        'EFI': 2,
        'EFI32': 3,
        'EFI64': 4,
        'EFIDUAL': 5,
    },
    'PointingHIDType': {
        'None': 1,
        'PS2Mouse': 2,
        'USBMouse': 3,
        'USBTablet': 4,
        'ComboMouse': 5,
        'USBMultiTouch': 6,
    },
    'KeyboardHIDType': {
        'None': 1,
        'PS2Keyboard': 2,
        'USBKeyboard': 3,
        'ComboKeyboard': 4,
    },
    'BitmapFormat': {
        'Opaque': 0,
        'BGR': 0x20524742,
        'BGR0': 0x30524742,
        'BGRA': 0x41524742,
        'RGBA': 0x41424752,
        'PNG': 0x20474E50,
    },

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    'JPEG': 0x4745504A,
},
'DhcpOpt': {
    'SubnetMask': 1,
    'TimeOffset': 2,
    'Router': 3,
    'TimeServer': 4,
    'NameServer': 5,
    'DomainNameServer': 6,
    'LogServer': 7,
    'Cookie': 8,
    'LPRServer': 9,
    'ImpressServer': 10,
    'ResourceLocationServer': 11,
    'HostName': 12,
    'BootFileSize': 13,
    'MeritDumpFile': 14,
    'DomainName': 15,
    'SwapServer': 16,
    'RootPath': 17,
    'ExtensionPath': 18,
    'IPForwardingEnableDisable': 19,
    'NonLocalSourceRoutingEnableDisable': 20,
    'PolicyFilter': 21,
    'MaximumDatagramReassemblySize': 22,
    'DefaultIPTime2Live': 23,
    'PathMTUAgingTimeout': 24,
    'IPLayerParametersPerInterface': 25,
    'InterfaceMTU': 26,
    'AllSubnetsAreLocal': 27,
    'BroadcastAddress': 28,
    'PerformMaskDiscovery': 29,
    'MaskSupplier': 30,
    'PerformRouteDiscovery': 31,
    'RouterSolicitationAddress': 32,
    'StaticRoute': 33,
    'TrailerEncapsulation': 34,
    'ARPCacheTimeout': 35,
    'EthernetEncapsulation': 36,
    'TCPDefaultTTL': 37,
    'TCPKeepAliveInterval': 38,
    'TCPKeepAliveGarbage': 39,
    'NetworkInformationServiceDomain': 40,
    'NetworkInformationServiceServers': 41,
    'NetworkTimeProtocolServers': 42,
    'VendorSpecificInformation': 43,
    'Option_44': 44,
    'Option_45': 45,
    'Option_46': 46,
    'Option_47': 47,
    'Option_48': 48,
    'Option_49': 49,
    'IPAddressLeaseTime': 51,
    'Option_64': 64,
    'Option_65': 65,
    'TFTPServerName': 66,
    'BootfileName': 67,
    'Option_68': 68,

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        'Option_69': 69,
        'Option_70': 70,
        'Option_71': 71,
        'Option_72': 72,
        'Option_73': 73,
        'Option_74': 74,
        'Option_75': 75,
        'Option_119': 119,
    },
    'DhcpOptEncoding': {
        'Legacy': 0,
        'Hex': 1,
    },
    'VFSType': {
        'File': 1,
        'Cloud': 2,
        'S3': 3,
        'WebDav': 4,
    },
    'ImportOptions': {
        'KeepAllMACs': 1,
        'KeepNATMACs': 2,
        'ImportToVDI': 3,
    },
    'ExportOptions': {
        'CreateManifest': 1,
        'ExportDVDImages': 2,
        'StripAllMACs': 3,
        'StripAllNonNATMACs': 4,
    },
    'CertificateVersion': {
        'V1': 1,
        'V2': 2,
        'V3': 3,
        'Unknown': 99,
    },
    'VirtualSystemDescriptionType': {
        'Ignore': 1,
        'OS': 2,
        'Name': 3,
        'Product': 4,
        'Vendor': 5,
        'Version': 6,
        'ProductUrl': 7,
        'VendorUrl': 8,
        'Description': 9,
        'License': 10,
        'Miscellaneous': 11,
        'CPU': 12,
        'Memory': 13,
        'HardDiskControllerIDE': 14,
        'HardDiskControllerSATA': 15,
        'HardDiskControllerSCSI': 16,
        'HardDiskControllerSAS': 17,
        'HardDiskImage': 18,
        'Floppy': 19,
        'CDROM': 20,
        'NetworkAdapter': 21,
    },

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        'USBController': 22,
        'SoundCard': 23,
        'SettingsFile': 24,
    },
    'VirtualSystemDescriptionValueType': {
        'Reference': 1,
        'Original': 2,
        'Auto': 3,
        'ExtraConfig': 4,
    },
    'GraphicsControllerType': {
        'Null': 0,
        'VBoxVGA': 1,
        'VMSVGA': 2,
    },
    'CleanupMode': {
        'UnregisterOnly': 1,
        'DetachAllReturnNone': 2,
        'DetachAllReturnHardDisksOnly': 3,
        'Full': 4,
    },
    'CloneMode': {
        'MachineState': 1,
        'MachineAndChildStates': 2,
        'AllStates': 3,
    },
    'CloneOptions': {
        'Link': 1,
        'KeepAllMACs': 2,
        'KeepNATMACs': 3,
        'KeepDiskNames': 4,
    },
    'AutostopType': {
        'Disabled': 1,
        'SaveState': 2,
        'PowerOff': 3,
        'AcpiShutdown': 4,
    },
    'HostNetworkInterfaceMediumType': {
        'Unknown': 0,
        'Ethernet': 1,
        'PPP': 2,
        'SLIP': 3,
    },
    'HostNetworkInterfaceStatus': {
        'Unknown': 0,
        'Up': 1,
        'Down': 2,
    },
    'HostNetworkInterfaceType': {
        'Bridged': 1,
        'HostOnly': 2,
    },
    'AdditionsFacilityType': {
        'None': 0,
        'VBoxGuestDriver': 20,
        'AutoLogon': 90,
        'VBoxService': 100,
    },

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        'VBoxTrayClient': 101,
        'Seamless': 1000,
        'Graphics': 1100,
        'MonitorAttach': 1101,
        'All': 2147483646,
    },
    'AdditionsFacilityClass': {
        'None': 0,
        'Driver': 10,
        'Service': 30,
        'Program': 50,
        'Feature': 100,
        'ThirdParty': 999,
        'All': 2147483646,
    },
    'AdditionsFacilityStatus': {
        'Inactive': 0,
        'Paused': 1,
        'PreInit': 20,
        'Init': 30,
        'Active': 50,
        'Terminating': 100,
        'Terminated': 101,
        'Failed': 800,
        'Unknown': 999,
    },
    'AdditionsRunLevelType': {
        'None': 0,
        'System': 1,
        'Userland': 2,
        'Desktop': 3,
    },
    'AdditionsUpdateFlag': {
        'None': 0,
        'WaitForUpdateStartOnly': 1,
    },
    'GuestSessionStatus': {
        'Undefined': 0,
        'Starting': 10,
        'Started': 100,
        'Terminating': 480,
        'Terminated': 500,
        'TimedOutKilled': 512,
        'TimedOutAbnormally': 513,
        'Down': 600,
        'Error': 800,
    },
    'GuestSessionWaitForFlag': {
        'None': 0,
        'Start': 1,
        'Terminate': 2,
        'Status': 4,
    },
    'GuestSessionWaitResult': {
        'None': 0,
        'Start': 1,
        'Terminate': 2,
        'Status': 3,
    },

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        'Error': 4,
        'Timeout': 5,
        'WaitFlagNotSupported': 6,
    },
    'GuestUserState': {
        'Unknown': 0,
        'LoggedIn': 1,
        'LoggedOut': 2,
        'Locked': 3,
        'Unlocked': 4,
        'Disabled': 5,
        'Idle': 6,
        'InUse': 7,
        'Created': 8,
        'Deleted': 9,
        'SessionChanged': 10,
        'CredentialsChanged': 11,
        'RoleChanged': 12,
        'GroupAdded': 13,
        'GroupRemoved': 14,
        'Elevated': 15,
    },
    'FileSeekOrigin': {
        'Begin': 0,
        'Current': 1,
        'End': 2,
    },
    'ProcessInputFlag': {
        'None': 0,
        'EndOfFile': 1,
    },
    'ProcessOutputFlag': {
        'None': 0,
        'StdErr': 1,
    },
    'ProcessWaitForFlag': {
        'None': 0,
        'Start': 1,
        'Terminate': 2,
        'StdIn': 4,
        'StdOut': 8,
        'StdErr': 16,
    },
    'ProcessWaitResult': {
        'None': 0,
        'Start': 1,
        'Terminate': 2,
        'Status': 3,
        'Error': 4,
        'Timeout': 5,
        'StdIn': 6,
        'StdOut': 7,
        'StdErr': 8,
        'WaitFlagNotSupported': 9,
    },
    'FileCopyFlag': {
        'None': 0,
        'NoReplace': 1,
    },

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        'FollowLinks': 2,
        'Update': 4,
    },
    'FsObjMoveFlags': {
        'None': 0,
        'Replace': 1,
        'FollowLinks': 2,
        'AllowDirectoryMoves': 4,
    },
    'DirectoryCreateFlag': {
        'None': 0,
        'Parents': 1,
    },
    'DirectoryCopyFlags': {
        'None': 0,
        'CopyIntoExisting': 1,
    },
    'DirectoryRemoveRecFlag': {
        'None': 0,
        'ContentAndDir': 1,
        'ContentOnly': 2,
    },
    'FsObjRenameFlag': {
        'NoReplace': 0,
        'Replace': 1,
    },
    'ProcessCreateFlag': {
        'None': 0,
        'WaitForProcessStartOnly': 1,
        'IgnoreOrphanedProcesses': 2,
        'Hidden': 4,
        'Profile': 8,
        'WaitForStdOut': 16,
        'WaitForStdErr': 32,
        'ExpandArguments': 64,
        'UnquotedArguments': 128,
    },
    'ProcessPriority': {
        'Invalid': 0,
        'Default': 1,
    },
    'SymlinkType': {
        'Unknown': 0,
        'Directory': 1,
        'File': 2,
    },
    'SymlinkReadFlag': {
        'None': 0,
        'NoSymlinks': 1,
    },
    'ProcessStatus': {
        'Undefined': 0,
        'Starting': 10,
        'Started': 100,
        'Paused': 110,
        'Terminating': 480,
        'TerminatedNormally': 500,
        'TerminatedSignal': 510,
    },

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    'TerminatedAbnormally': 511,
    'TimedOutKilled': 512,
    'TimedOutAbnormally': 513,
    'Down': 600,
    'Error': 800,
  },
  'ProcessInputStatus': {
    'Undefined': 0,
    'Broken': 1,
    'Available': 10,
    'Written': 50,
    'Overflow': 100,
  },
  'PathStyle': {
    'DOS': 1,
    'UNIX': 2,
    'Unknown': 8,
  },
  'FileAccessMode': {
    'ReadOnly': 1,
    'WriteOnly': 2,
    'ReadWrite': 3,
    'AppendOnly': 4,
    'AppendRead': 5,
  },
  'FileOpenAction': {
    'OpenExisting': 1,
    'OpenOrCreate': 2,
    'CreateNew': 3,
    'CreateOrReplace': 4,
    'OpenExistingTruncated': 5,
    'AppendOrCreate': 99,
  },
  'FileSharingMode': {
    'Read': 1,
    'Write': 2,
    'ReadWrite': 3,
    'Delete': 4,
    'ReadDelete': 5,
    'WriteDelete': 6,
    'All': 7,
  },
  'FileOpenExFlags': {
    'None': 0,
  },
  'FileStatus': {
    'Undefined': 0,
    'Opening': 10,
    'Open': 100,
    'Closing': 150,
    'Closed': 200,
    'Down': 600,
    'Error': 800,
  },
  'FsObjType': {
    'Unknown': 1,
    'Fifo': 2,
    'DevChar': 3,
  },

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    'Directory': 4,
    'DevBlock': 5,
    'File': 6,
    'Symlink': 7,
    'Socket': 8,
    'WhiteOut': 9,
},
'DnDAction': {
    'Ignore': 0,
    'Copy': 1,
    'Move': 2,
    'Link': 3,
},
'DirectoryOpenFlag': {
    'None': 0,
    'NoSymlinks': 1,
},
'MediumState': {
    'NotCreated': 0,
    'Created': 1,
    'LockedRead': 2,
    'LockedWrite': 3,
    'Inaccessible': 4,
    'Creating': 5,
    'Deleting': 6,
},
'MediumType': {
    'Normal': 0,
    'Immutable': 1,
    'Writethrough': 2,
    'Shareable': 3,
    'Readonly': 4,
    'MultiAttach': 5,
},
'MediumVariant': {
    'Standard': 0,
    'VmdkSplit2G': 0x01,
    'VmdkRawDisk': 0x02,
    'VmdkStreamOptimized': 0x04,
    'VmdkESX': 0x08,
    'VdiZeroExpand': 0x100,
    'Fixed': 0x10000,
    'Diff': 0x20000,
    'NoCreateDir': 0x40000000,
},
'DataType': {
    'Int32': 0,
    'Int8': 1,
    'String': 2,
},
'DataFlags': {
    'None': 0x00,
    'Mandatory': 0x01,
    'Expert': 0x02,
    'Array': 0x04,
    'FlagMask': 0x07,
},
'MediumFormatCapabilities': {

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        'Uuid': 0x01,
        'CreateFixed': 0x02,
        'CreateDynamic': 0x04,
        'CreateSplit2G': 0x08,
        'Differencing': 0x10,
        'Asynchronous': 0x20,
        'File': 0x40,
        'Properties': 0x80,
        'TcpNetworking': 0x100,
        'VFS': 0x200,
        'Discard': 0x400,
        'Preferred': 0x800,
        'CapabilityMask': 0xFFFF,
    },
    'KeyboardLED': {
        'NumLock': 0x01,
        'CapsLock': 0x02,
        'ScrollLock': 0x04,
    },
    'MouseButtonState': {
        'LeftButton': 0x01,
        'RightButton': 0x02,
        'MiddleButton': 0x04,
        'WheelUp': 0x08,
        'WheelDown': 0x10,
        'XButton1': 0x20,
        'XButton2': 0x40,
        'MouseStateMask': 0x7F,
    },
    'TouchContactState': {
        'None': 0x00,
        'InContact': 0x01,
        'InRange': 0x02,
        'ContactStateMask': 0x03,
    },
    'FramebufferCapabilities': {
        'UpdateImage': 0x01,
        'VHWA': 0x02,
        'VisibleRegion': 0x04,
    },
    'GuestMonitorStatus': {
        'Disabled': 0,
        'Enabled': 1,
        'Blank': 2,
    },
    'ScreenLayoutMode': {
        'Apply': 0,
        'Reset': 1,
        'Attach': 2,
    },
    'NetworkAttachmentType': {
        'Null': 0,
        'NAT': 1,
        'Bridged': 2,
        'Internal': 3,
        'HostOnly': 4,
        'Generic': 5,
        'NATNetwork': 6,
    },

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},
'NetworkAdapterType': {
  'Null': 0,
  'Am79C970A': 1,
  'Am79C973': 2,
  'I82540EM': 3,
  'I82543GC': 4,
  'I82545EM': 5,
  'Virtio': 6,
},
'NetworkAdapterPromiscModePolicy': {
  'Deny': 1,
  'AllowNetwork': 2,
  'AllowAll': 3,
},
'PortMode': {
  'Disconnected': 0,
  'HostPipe': 1,
  'HostDevice': 2,
  'RawFile': 3,
  'TCP': 4,
},
'USBControllerType': {
  'Null': 0,
  'OHCI': 1,
  'EHCI': 2,
  'XHCI': 3,
  'Last': 4,
},
'USBConnectionSpeed': {
  'Null': 0,
  'Low': 1,
  'Full': 2,
  'High': 3,
  'Super': 4,
  'SuperPlus': 5,
},
'USBDeviceState': {
  'NotSupported': 0,
  'Unavailable': 1,
  'Busy': 2,
  'Available': 3,
  'Held': 4,
  'Captured': 5,
},
'USBDeviceFilterAction': {
  'Null': 0,
  'Ignore': 1,
  'Hold': 2,
},
'AudioDriverType': {
  'Null': 0,
  'WinMM': 1,
  'OSS': 2,
  'ALSA': 3,
  'DirectSound': 4,
  'CoreAudio': 5,
  'MMPM': 6,
}

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        'Pulse': 7,
        'SolAudio': 8,
    },
    'AudioControllerType': {
        'AC97': 0,
        'SB16': 1,
        'HDA': 2,
    },
    'AudioCodecType': {
        'Null': 0,
        'SB16': 1,
        'STAC9700': 2,
        'AD1980': 3,
        'STAC9221': 4,
    },
    'AuthType': {
        'Null': 0,
        'External': 1,
        'Guest': 2,
    },
    'Reason': {
        'Unspecified': 0,
        'HostSuspend': 1,
        'HostResume': 2,
        'HostBatteryLow': 3,
        'Snapshot': 4,
    },
    'StorageBus': {
        'Null': 0,
        'IDE': 1,
        'SATA': 2,
        'SCSI': 3,
        'Floppy': 4,
        'SAS': 5,
        'USB': 6,
        'PCIE': 7,
    },
    'StorageControllerType': {
        'Null': 0,
        'LsiLogic': 1,
        'BusLogic': 2,
        'IntelAhci': 3,
        'PIIX3': 4,
        'PIIX4': 5,
        'ICH6': 6,
        'I82078': 7,
        'LsiLogicSas': 8,
        'USB': 9,
        'NVMe': 10,
    },
    'ChipsetType': {
        'Null': 0,
        'PIIX3': 1,
        'ICH9': 2,
    },
    'NATAliasMode': {
        'AliasLog': 0x1,
        'AliasProxyOnly': 0x02,
    },

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    'AliasUseSamePorts': 0x04,
},
'NATProtocol': {
    'UDP': 0,
    'TCP': 1,
},
'BandwidthGroupType': {
    'Null': 0,
    'Disk': 1,
    'Network': 2,
},
'VBoxEventType': {
    'Invalid': 0,
    'Any': 1,
    'Vetoable': 2,
    'MachineEvent': 3,
    'SnapshotEvent': 4,
    'InputEvent': 5,
    'LastWildcard': 31,
    'OnMachineStateChanged': 32,
    'OnMachineDataChanged': 33,
    'OnExtraDataChanged': 34,
    'OnExtraDataCanChange': 35,
    'OnMediumRegistered': 36,
    'OnMachineRegistered': 37,
    'OnSessionStateChanged': 38,
    'OnSnapshotTaken': 39,
    'OnSnapshotDeleted': 40,
    'OnSnapshotChanged': 41,
    'OnGuestPropertyChanged': 42,
    'OnMousePointerShapeChanged': 43,
    'OnMouseCapabilityChanged': 44,
    'OnKeyboardLedsChanged': 45,
    'OnStateChanged': 46,
    'OnAdditionsStateChanged': 47,
    'OnNetworkAdapterChanged': 48,
    'OnSerialPortChanged': 49,
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    'OnUSBControllerChanged': 54,
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    'OnRuntimeError': 57,
    'OnCanShowWindow': 58,
    'OnShowWindow': 59,
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    'OnVRDEServerInfoChanged': 61,
    'OnEventSourceChanged': 62,
    'OnCPUExecutionCapChanged': 63,
    'OnGuestKeyboard': 64,
    'OnGuestMouse': 65,
    'OnNATRedirect': 66,
    'OnHostPCIDevicePlug': 67,
    'OnVBoxSVCAvailabilityChanged': 68,
    'OnBandwidthGroupChanged': 69,
    'OnGuestMonitorChanged': 70,

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    'OnStorageDeviceChanged': 71,
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    'OnNATNetworkChanged': 74,
    'OnNATNetworkStartStop': 75,
    'OnNATNetworkAlter': 76,
    'OnNATNetworkCreationDeletion': 77,
    'OnNATNetworkSetting': 78,
    'OnNATNetworkPortForward': 79,
    'OnGuestSessionStateChanged': 80,
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    'OnGuestProcessRegistered': 82,
    'OnGuestProcessStateChanged': 83,
    'OnGuestProcessInputNotify': 84,
    'OnGuestProcessOutput': 85,
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    'OnGuestFileStateChanged': 87,
    'OnGuestFileOffsetChanged': 88,
    'OnGuestFileRead': 89,
    'OnGuestFileWrite': 90,
    'OnVideoCaptureChanged': 91,
    'OnGuestUserStateChanged': 92,
    'OnGuestMultiTouch': 93,
    'OnHostNameResolutionConfigurationChange': 94,
    'OnSnapshotRestored': 95,
    'OnMediumConfigChanged': 96,
    'OnAudioAdapterChanged': 97,
    'OnProgressPercentageChanged': 98,
    'OnProgressTaskCompleted': 99,
    'Last': 100,
  },
  'GuestMouseEventMode': {
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    'Absolute': 1,
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  'GuestMonitorChangedEventType': {
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    'Disabled': 1,
    'NewOrigin': 2,
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}

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        'Stopping': 'Stopping',
        'Saving': 'Saving',
        'Restoring': 'Restoring',
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        'DeletingSnapshotPaused': 'DeletingSnapshotPaused',
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        'LastTransient': 'LastTransient',
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    'Force': 'Force',
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    'Network': 'Network',
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    'Graphics3D': 'Graphics3D',
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    'Writing': 'Writing',
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'ClipboardMode': {
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        'Session': 'Session',
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        'MenuOnly': 'MenuOnly',
        'MessageAndMenu': 'MessageAndMenu',
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        'APIC': 'APIC',
        'X2APIC': 'X2APIC',
    },
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    'ExtensionPath': 'ExtensionPath',
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        'WebDav': 'WebDav',
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        'KeepNATMACs': 'KeepNATMACs',
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    },
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        'ExportDVDImages': 'ExportDVDImages',
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        'StripAllNonNATMACs': 'StripAllNonNATMACs',
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        'V2': 'V2',
        'V3': 'V3',
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        'VendorUrl': 'VendorUrl',
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    'Desktop': 'Desktop',
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'GuestSessionStatus': {
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    'Terminated': 'Terminated',
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    'Status': 'Status',
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    'Deleted': 'Deleted',
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    'RoleChanged': 'RoleChanged',
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    'GroupRemoved': 'GroupRemoved',
    'Elevated': 'Elevated',
},
'FileSeekOrigin': {
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    'End': 'End',
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'ProcessOutputFlag': {
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    'StdErr': 'StdErr',
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    'StdErr': 'StdErr',
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    'Unknown': 'Unknown',
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    'AppendRead': 'AppendRead',
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    'OpenExistingTruncated': 'OpenExistingTruncated',
    'AppendOrCreate': 'AppendOrCreate',
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  'FileSharingMode': {
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    'Write': 'Write',
    'ReadWrite': 'ReadWrite',
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    'ReadDelete': 'ReadDelete',
    'WriteDelete': 'WriteDelete',
    'All': 'All',
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    'Move': 'Move',
    'Link': 'Link',
},
'DirectoryOpenFlag': {
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    'NoSymlinks': 'NoSymlinks',
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'MediumState': {
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    'Created': 'Created',
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    'LockedWrite': 'LockedWrite',
    'Inaccessible': 'Inaccessible',
    'Creating': 'Creating',
    'Deleting': 'Deleting',
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    'Writethrough': 'Writethrough',
    'Shareable': 'Shareable',
    'ReadOnly': 'ReadOnly',
    'MultiAttach': 'MultiAttach',
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'MediumVariant': {
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    'VmdkRawDisk': 'VmdkRawDisk',
    'VmdkStreamOptimized': 'VmdkStreamOptimized',
    'VmdkESX': 'VmdkESX',
    'VdiZeroExpand': 'VdiZeroExpand',
    'Fixed': 'Fixed',
    'Diff': 'Diff',
    'NoCreateDir': 'NoCreateDir',
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    'String': 'String',
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    'Expert': 'Expert',
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  'WheelDown': 'WheelDown',
  'XButton1': 'XButton1',
  'XButton2': 'XButton2',
  'MouseStateMask': 'MouseStateMask',
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'TouchContactState': {
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  'InRange': 'InRange',
  'ContactStateMask': 'ContactStateMask',
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'FramebufferCapabilities': {
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  'VisibleRegion': 'VisibleRegion',
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'GuestMonitorStatus': {
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  'Enabled': 'Enabled',
  'Blank': 'Blank',
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'ScreenLayoutMode': {
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  'Reset': 'Reset',
  'Attach': 'Attach',
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  'Internal': 'Internal',
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    'NATNetwork': 'NATNetwork',
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    'I82540EM': 'I82540EM',
    'I82543GC': 'I82543GC',
    'I82545EM': 'I82545EM',
    'Virtio': 'Virtio',
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  'NetworkAdapterPromiscModePolicy': {
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    'AllowNetwork': 'AllowNetwork',
    'AllowAll': 'AllowAll',
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  'PortMode': {
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    'HostPipe': 'HostPipe',
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    'RawFile': 'RawFile',
    'TCP': 'TCP',
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  'USBControllerType': {
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    'EHCI': 'EHCI',
    'XHCI': 'XHCI',
    'Last': 'Last',
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  'USBConnectionSpeed': {
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    'High': 'High',
    'Super': 'Super',
    'SuperPlus': 'SuperPlus',
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  'USBDeviceState': {
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    'Unavailable': 'Unavailable',
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    'Captured': 'Captured',
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  'USBDeviceFilterAction': {
    'Null': 'Null',
    'Ignore': 'Ignore',
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  'AudioDriverType': {
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    'DirectSound': 'DirectSound',
    'CoreAudio': 'CoreAudio',
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        'MMPM': 'MMPM',
        'Pulse': 'Pulse',
        'SolAudio': 'SolAudio',
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        'HDA': 'HDA',
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        'AD1980': 'AD1980',
        'STAC9221': 'STAC9221',
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        'Snapshot': 'Snapshot',
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        'SCSI': 'SCSI',
        'Floppy': 'Floppy',
        'SAS': 'SAS',
        'USB': 'USB',
        'PCIE': 'PCIE',
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        'BusLogic': 'BusLogic',
        'IntelAhci': 'IntelAhci',
        'PIIX3': 'PIIX3',
        'PIIX4': 'PIIX4',
        'ICH6': 'ICH6',
        'I82078': 'I82078',
        'LsiLogicSas': 'LsiLogicSas',
        'USB': 'USB',
        'NVMe': 'NVMe',
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        'ICH9': 'ICH9',
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        'AliasLog': 'AliasLog',
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    'OnKeyboardLedsChanged': 'OnKeyboardLedsChanged',
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    'OnUSBControllerChanged': 'OnUSBControllerChanged',
    'OnUSBDeviceStateChanged': 'OnUSBDeviceStateChanged',
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    'OnRuntimeError': 'OnRuntimeError',
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    'OnShowWindow': 'OnShowWindow',
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    'OnEventSourceChanged': 'OnEventSourceChanged',
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    'OnNATRedirect': 'OnNATRedirect',
    'OnHostPCIDevicePlug': 'OnHostPCIDevicePlug',
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'OnGuestMonitorChanged': 'OnGuestMonitorChanged',
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'OnNATNetworkAlter': 'OnNATNetworkAlter',
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'OnGuestProcessOutput': 'OnGuestProcessOutput',
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'OnGuestFileWrite': 'OnGuestFileWrite',
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'OnGuestUserStateChanged': 'OnGuestUserStateChanged',
'OnGuestMultiTouch': 'OnGuestMultiTouch',
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'OnSnapshotRestored': 'OnSnapshotRestored',
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'OnProgressTaskCompleted': 'OnProgressTaskCompleted',
'Last': 'Last',
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'GuestMouseEventMode': {
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  'Absolute': 'Absolute',
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  'NewOrigin': 'NewOrigin',
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'MachineState_Restoring': 13,
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'MachineState_TeleportingIn': 15,
'MachineState_FaultTolerantSyncing': 16,
'MachineState_DeletingSnapshotOnline': 17,
'MachineState_DeletingSnapshotPaused': 18,
'MachineState_OnlineSnapshotting': 19,
'MachineState_RestoringSnapshot': 20,
'MachineState_DeletingSnapshot': 21,
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'CPUPropertyType_IBPBOnVMEExit': 6,
'CPUPropertyType_IBPBOnVMEEntry': 7,
'CPUPropertyType_SpecCtrl': 9,
'CPUPropertyType_SpecCtrlByHost': 10,
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'CPUPropertyType_L1DFlushOnVMEEntry': 12,
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'DeviceType_HardDisk': 3,
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'DeviceType_SharedFolder': 6,
'DeviceType_Graphics3D': 7,
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'DeviceActivity_Reading': 2,
'DeviceActivity_Writing': 3,
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'DnDMode_GuestToHost': 2,
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'Scope_Machine': 1,
'Scope_Session': 2,
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'ProcessorFeature_LongMode': 2,
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'PointingHIDType_USBMultitouch': 6,
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'BitmapFormat_JPEG': 0x4745504A,
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'DhcpOpt_TimeServer': 4,
'DhcpOpt_NameServer': 5,
'DhcpOpt_DomainNameServer': 6,
'DhcpOpt_LogServer': 7,
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'DhcpOpt_LPRServer': 9,
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'DhcpOpt_ResourceLocationServer': 11,
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'DhcpOpt_NonLocalSourceRoutingEnableDisable': 20,
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'DhcpOpt_DefaultIPTime2Live': 23,
'DhcpOpt_PathMTUAgingTimeout': 24,
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'DhcpOpt_MaskSupplier': 30,
'DhcpOpt_PerformRouteDiscovery': 31,
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'DhcpOpt_ARPCacheTimeout': 35,
'DhcpOpt_EthernetEncapsulation': 36,
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'DhcpOpt_TCPKeepAliveGarbage': 39,
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'DhcpOpt_NetworkInformationServiceServers': 41,
'DhcpOpt_NetworkTimeProtocolServers': 42,
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'DhcpOpt_BootfileName': 67,
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'VFSType_S3': 3,
'VFSType_WebDav': 4,
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'ImportOptions_KeepNATMACs': 2,
'ImportOptions_ImportToVDI': 3,
'ExportOptions_CreateManifest': 1,
'ExportOptions_ExportDVDImages': 2,
'ExportOptions_StripAllMACs': 3,
'ExportOptions_StripAllNonNATMACs': 4,
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'CertificateVersion_V3': 3,
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 'GuestUserState_GroupRemoved': 14,
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'FsObjMoveFlags_FollowLinks': 2,
'FsObjMoveFlags_AllowDirectoryMoves': 4,
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'ProcessCreateFlag_WaitForStdErr': 32,
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'VBOX_E_IPRT_ERROR': 'VBOX_E_IPRT_ERROR',
'VBOX_E_PDM_ERROR': 'VBOX_E_PDM_ERROR',
'VBOX_E_INVALID_OBJECT_STATE': 'VBOX_E_INVALID_OBJECT_STATE',
'VBOX_E_HOST_ERROR': 'VBOX_E_HOST_ERROR',
'VBOX_E_NOT_SUPPORTED': 'VBOX_E_NOT_SUPPORTED',
'VBOX_E_XML_ERROR': 'VBOX_E_XML_ERROR',
'VBOX_E_INVALID_SESSION_STATE': 'VBOX_E_INVALID_SESSION_STATE',
'VBOX_E_OBJECT_IN_USE': 'VBOX_E_OBJECT_IN_USE',
'VBOX_E_PASSWORD_INCORRECT': 'VBOX_E_PASSWORD_INCORRECT',

```

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}

def __getattr__(self, sAttrName):
    if self.__fIsSym:
        oValue = self.__dValuesFlatSym.get(sAttrName)
    else:
        oValue = self.__dValuesFlat.get(sAttrName)
    if oValue is None:
        raise AttributeError
    return oValue

def all_values(self, sEnumName):
    """Returns a dictionary with all the value names for a given enum type. """
    if self.__fIsSym:
        dValues = self.__dValuesSym.get(sEnumName)
    else:
        dValues = self.__dValues.get(sEnumName)
    if dValues is None:
        dValues = {}
    return dValues

```