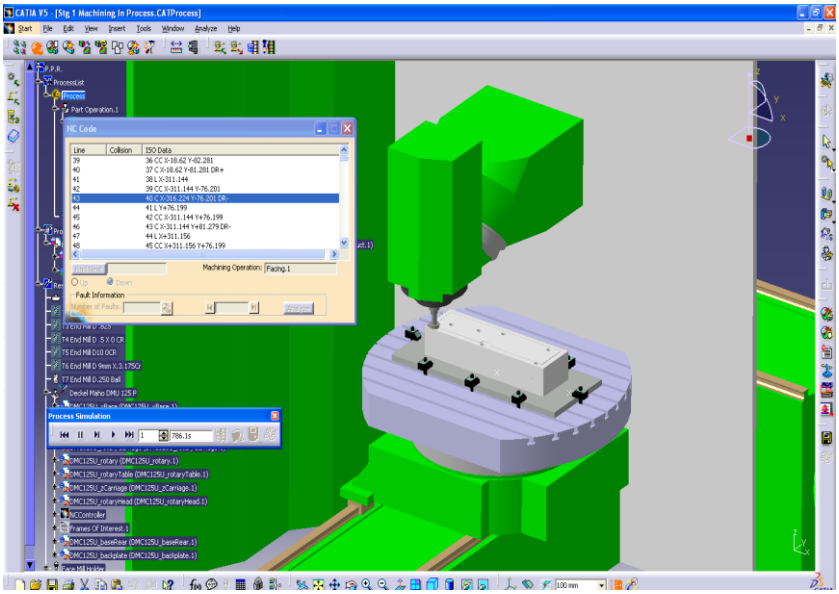
IMSce™ for V5/V6

CNC Controller Emulation --- CNC 控制器仿真

Overview 概述

CATIA V5 and V6 from Dassault Systems provide a unique integrated approach allowing G-code validation without leaving the CAM environment; controller emulation capability with IMSce provides the machine motion, while checking for syntax and logic errors and alerting the user when they occur.

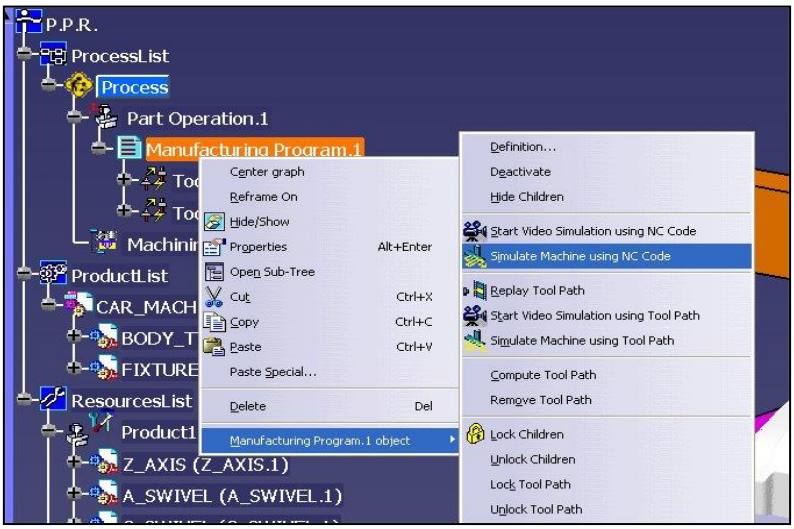
由 IMSce 提供的产生机床运动的控制器仿真功能，为达索系统的 CATIA V5 和 V6 应用提供了独特的集成的方法，能够做到在不离开 CAM 环境中进行 G 代码的验证，同时检查运算法则和逻辑错误，并在存在错误时提醒用户。



Verify G-code, not APT --- 验证 G 代码，而不是 APT 文件

- Most CAM software provides NC verification with material removal, and in some cases machine simulation, but normally only checks the toolpath generated by the software. What happens between the CAM system and the machine - postprocessing to convert the toolpath to the correct format, optimization for speeds, feeds, retraction and reorientation at machine limits, or simply hand-editing by the operator - can introduce conditions that can be costly if not identified before the part is on the machine.
- 大多数 CAM 软件能提供材料切除的数控加工验证，以及在某些情况下的机床仿真，但通常只检查由 CAM 软件生成的刀具路径。在 CAM 系统和机床之间可能会发生的情况

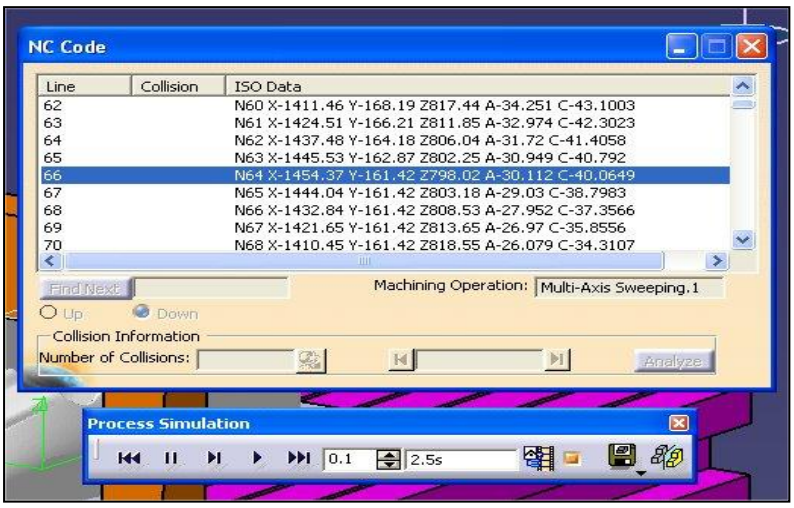
--- 比如：刀具路径经过后处理后是否转换为正确的格式，速度是否得到优化，进给率，回退刀以及在机器行程的限制时重新定位的功能，或者干脆由操作者手工编辑 ，等等这些都无法得到验证；因为没有在零件上机器加工之前进行验证仿真，而造成付出昂贵的代价，这种情况的发生是举不胜举的。



Controller Emulation 控制器仿真

IMSce for V5/V6 provides robust controller emulation for all types of CNC controllers on the market today, including Fanuc, Siemens, Heidenhain (ISO and conversational formats), Fadal, Num, Mazak and many others. Full support for controller variables, subprograms, expressions, canned cycles, probing and more ensure the most accurate and robust simulation available in the industry.

IMSce 为今日市场上所有类型的 CNC 控制器，提供了强大的应用于 V5/V6 的控制器仿真功能，包括：Fanuc, Siemens, Heidenhain（ISO 和会话格式），Fadal, Num, Mazak 和许多其他的类型。为控制器的变量，子程序，表达式，固定循环，测量等提供完全的支持，并更加确保了最准确的和强大的模拟功能在行业中获得应用。



Virtual CNC Controller 虚拟 CNC 控制管理器

The virtual CNC controller pioneered in IMSpost is the heart of IMSce for V5/V6. Complete processing of the machine code provides a true picture of the tool motion.

率先在 IMSpost 应用的虚拟数控控制器是 IMSce 应用于 V5/V6 的核心。机床代码的完整后处理提供了刀具加工运动的最真实的画面。

IMSce for V5/V6 includes support for all controller functions, including:

IMSce 为应用于 V5/V6 所有控制器提供功能，包括：

- Cutter compensation (2D & 3D) --- 刀具补偿（二维和三维）
- Tool length compensation --- 刀具长度补偿
- Rotary axis pivot points --- 旋转轴支点
- Controller subroutines --- 控制器子程序
- Controller variables and expressions --- 控制器变量和表达式
- Canned cycles --- 固定循环
- Working planes --- 工作平面

The virtual controller provides support for NC controls from all major manufacturers, including:

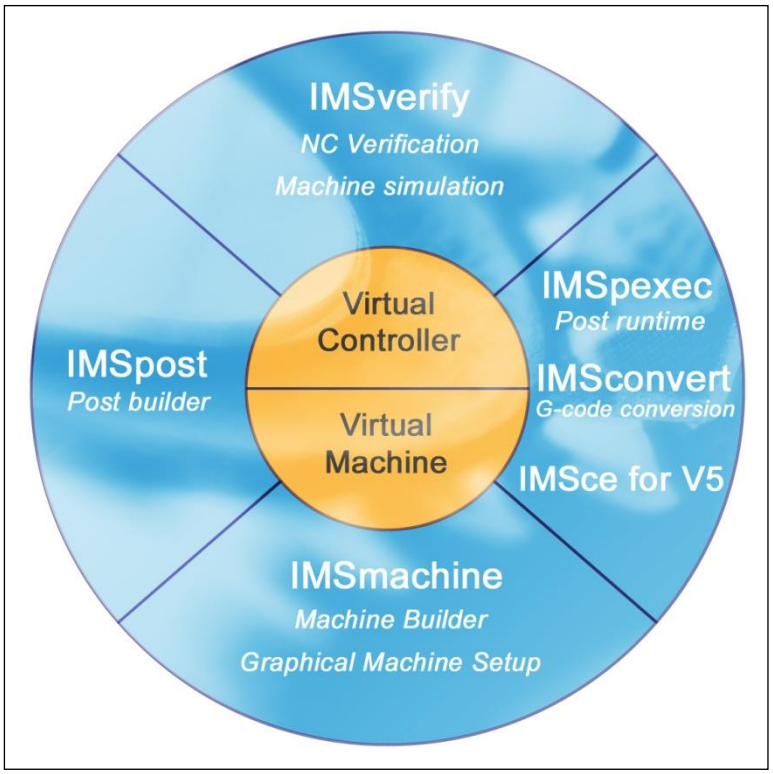
虚拟控制管理器为所有主要的机床制造商的数控控制提供支持，其中包括：

A-B	K&T
BOSCH	MAZAK
CINCINNATTI	NUM
EVOLUTION	OKUMA
FADAL	SELCA
FANUC	SHARNOA
FIDIA	SIEMENS
GE	TOSHIBA
G&L	YASNAC
HEIDENHAIN	*and others*

Supported Platforms 支持平台

- Intel/AMD 64-bit computers with Windows 7/8/10

An Architecture Optimized for CNC



Related Products 相关产品

IMSpost™

IMSpost™, the worlds most advanced postprocessing software, transforms CAD/CAM cutter location (Clfiles) into the specific machine codes (G/M codes) required by NC machines. IMSpost works seamlessly with all major CAD/CAM systems, hardware platforms, and NC machines, in one easy to use interface.

IMSpost™，世界上最先进的后处理专业软件，将 CAD / CAM 中产生的刀位文件（Clfiles）转换为数控机床所需要的、特定的（G/ M 代码）代码程序；IMSpost 能在一个易于使用的界面，同所有主要的 CAD / CAM 系统、硬件平台及数控机床之间无缝地工作。

IMSverify™

Full-function, solids-based CNC verification with full machine simulation.

全功能、以实体为基础的数控验证和仿真软件，能实现完整的加工仿真