

ABSTRACT

An Interface and a Graphics Decoder for
the Computer Numerical Control Machine

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Continued interest in the creation of a more user friendly environment for the CNC (Computer Numerical Controlled) machines at the University of the West Indies (U.W.I.) led to the development of two very inexpensive computer programs designed to address specific requirements :

1. F_COM, a communication program allows bi-directional transfer of CNC programs between the CNC machines and the VAX 11 mini-computer.
2. F_DRAW, a graphics program designed to decode CNC machine programs to produce a color coded graphics image which represents the movement of the CNC machine tool during machining operations. The overall results is a CNC graphics interpreter with debugging and remote CNC program development capabilities.