

# NCVIEW 2024

## NCVIEW Neo 2024

### NCVIEW MC3 2024

NCVIEW 2024/ NCVIEW Neo 2024/ NCVIEW MC3 2024 Release Note

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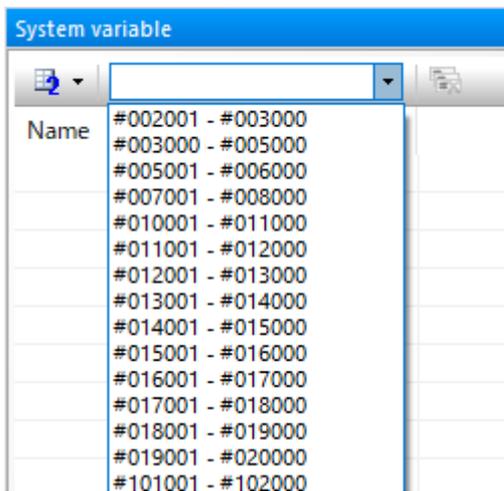
#### A) New Feature Overview

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##### 1 Expanded Macro Debugger functionality

**Changed the selection method of variables displayed in the Variables window.**

Changed to display a list of variable ranges available in NCVIEW. It is now possible to easily refer to the variable ranges that can be used. The variable range to be displayed in the variable window can be selected from the list.



### OSP variable list display is supported.

The list view of OSP's common and system variables is now supported. Compared to the previous version, more variables can now be checked at once.

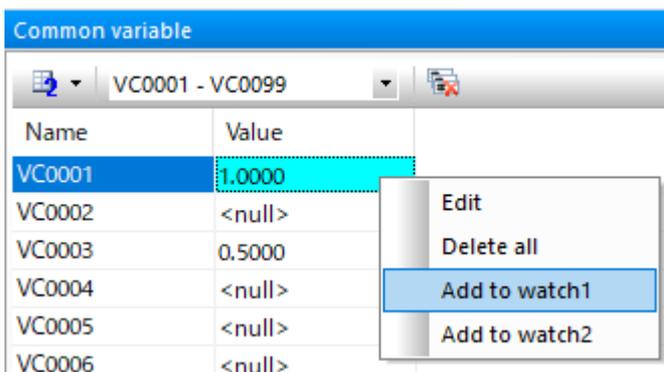
You can also add them to your watch. To use this function, please contact our support. We will be happy to provide you with more information.

Common variable		System variable	
Name	Value	Name	Value
VC0001	1.0000	VC0051	<null>
VC0002	<null>	VC0052	<null>
VC0003	0.5000	VC0053	<null>
VC0004	<null>	VC0054	<null>
VC0005	<null>	VC0055	555.0000
VC0006	<null>	VC0056	<null>
VC0007	<null>	VC0057	<null>
VC0008	<null>	VC0058	<null>
VC0009	<null>	VC0059	<null>
VC0010	<null>	VC0060	<null>
VC0011	11.0000	VC0061	<null>
VC0012	<null>	VC0062	<null>
VC0013	<null>	VC0063	<null>
VC0014	<null>	VC0064	<null>

Name	Value	Name	Value
VDCOD	11.0000	VRCOY	200.0000
VFCOD	0.0000	VRCOZ	50.0000
VHCOD	11.0000	VSAPX	0.0000
VSCOD	0.0000	VSAPY	0.0000
VACOD	5.0000	VSAPZ	0.0000
VTLCN	1.0000	VMOFX	0.0000
VTLNN	3.0000	VMOFY	0.0000
VATOL	1.0000	VMOFZ	0.0000
VNTOL	3.0000	VDIN	0.0000
VATNT	0.0000	VDOUT	0.0000
VAPAX	100.0000	VRSTT	0.0000
VAPAY	200.0000	VPAI	3.1416
VAPAZ	50.0000	VALRM	0.0000
VRCOX	100.0000		

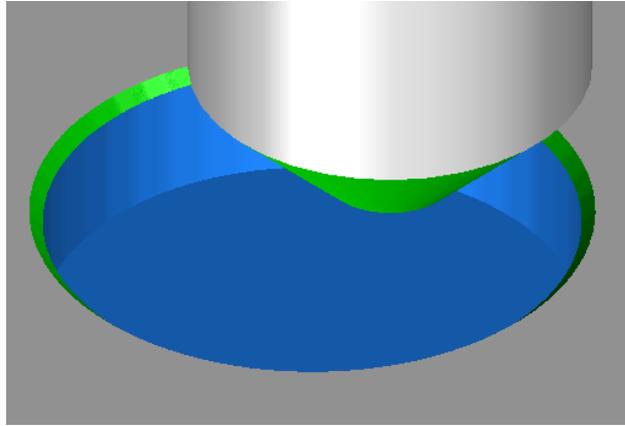
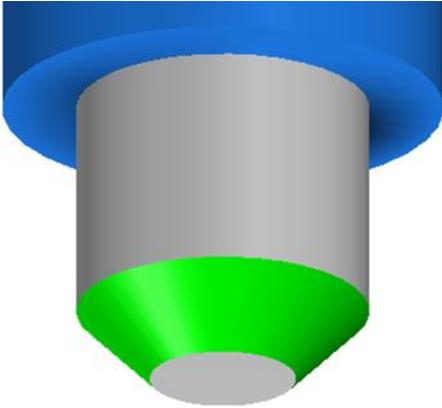
### Variables can now be added to watch from the right-click menu



## 2 Chamfering tools are now supported. (NCVIEW Neo / MC3 / TOOL)

Chamfering tool simulation is now available. It can be used with simple tool settings.

Interference at the bottom of the tool and cutting in unintended directions can be checked in advance to prevent damage to the tool or workpiece and ensure safe machining.



Preview

Holder length 100.0000

Whole length 120.0000

Shape parameter

Type Chamfering

Tool length 20.0000

Taper angle1 45.0000

Tool diameter 20.0000

Bottom diameter 10.0000

The image shows a software interface for configuring a chamfering tool. On the left, a 'Preview' window displays a 3D model of the tool with its dimensions: 'Holder length' is 100.0000 and 'Whole length' is 120.0000. On the right, the 'Shape parameter' section is set to 'Chamfering'. It includes a diagram of the tool with dimension lines. The parameters are: 'Tool length' (20.0000), 'Taper angle1' (45.0000), 'Tool diameter' (20.0000), and 'Bottom diameter' (10.0000).

## **B) Functions planned for future development**

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We plan to further extend and improve the macro debugger functionality described above.

## **C) Main Improvements and Modifications**

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- Fixed a problem with NC data loading.
- Fixed shaft stroke check during tool diameter compensation
- Fixed cutting error
- Fixed a problem switching between radius value and diameter value commands.
- Some tool file loading functionality has been added.
- Fixed G71 turning cycle operation for FANUC
- Fixed OSP tapping operation
- Fixed OSP fixed cycle behavior
- Improved model comparison simulations
- Expanded G31 operation
- Fixed a problem with G65
- Fixed layer display in DXF display settings
- Fixed system variables on FANUC and OSP
- Corrected message and status sequence number display
- Improved tool locus DXF output

## D) List of Support Reception Numbers

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202305004 202304007 202303002 202209015 202212012 202307007 202307001 202305001 202311006  
202309008 202305008

## E) Operating Environment

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OS	< NCVIEW TURNwatch / SOLIDwatch / MULTAXwatch > Windows 10 / Windows 10 64bit / Windows11 ※Also operates on 32-bit if installed on a 64-bit OS  < NCVIEW Neo / NCVIEW MC3 / NCVIEW TOOLwatch > Windows 10 64bit / Windows11
Memory	16 GB or higher (64bit) / 2 GB or higher (32bit) recommended
CPU	Intel Core i7 recommended
Graphics	NVIDIA recommended

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