

# Virtual-Key Codes

The following table shows the symbolic constant names, hexadecimal values, and keyboard equivalents for the virtual-key codes used by the Microsoft Windows operating system. The codes are listed in numeric order.

Symbolic constant name	Value (hexadecimal)	Mouse or keyboard equivalent
VK_LBUTTON	01	Left mouse button
VK_RBUTTON	02	Right mouse button
VK_CANCEL	03	Control-break processing
VK_MBUTTON	04	Middle mouse button (three-button mouse)
—	05–07	Undefined
VK_BACK	08	BACKSPACE key
VK_TAB	09	TAB key
—	0A–0B	Undefined
VK_CLEAR	0C	CLEAR key
VK_RETURN	0D	ENTER key
—	0E–0F	Undefined
VK_SHIFT	10	SHIFT key
VK_CONTROL	11	CTRL key
VK_MENU	12	ALT key
VK_PAUSE	13	PAUSE key
VK_CAPITAL	14	CAPS LOCK key
—	15–19	Reserved for Kanji systems
—	1A	Undefined
VK_ESCAPE	1B	ESC key
—	1C–1F	Reserved for Kanji systems
VK_SPACE	20	SPACEBAR
VK_PRIOR	21	PAGE UP key
VK_NEXT	22	PAGE DOWN key
VK_END	23	END key
VK_HOME	24	HOME key
VK_LEFT	25	LEFT ARROW key
VK_UP	26	UP ARROW key
VK_RIGHT	27	RIGHT ARROW key
VK_DOWN	28	DOWN ARROW key
VK_SELECT	29	SELECT key
—	2A	Original equipment manufacturer (OEM) specific
VK_EXECUTE	2B	EXECUTE key
VK_SNAPSHOT	2C	PRINT SCREEN key for Windows 3.0 and later
VK_INSERT	2D	INS key

<b>VK_DELETE</b>	2E	DEL key
<b>VK_HELP</b>	2F	HELP key
<b>VK_0</b>	30	0 key
<b>VK_1</b>	31	1 key
<b>VK_2</b>	32	2 key
<b>VK_3</b>	33	3 key
<b>VK_4</b>	34	4 key
<b>VK_5</b>	35	5 key
<b>VK_6</b>	36	6 key
<b>VK_7</b>	37	7 key
<b>VK_8</b>	38	8 key
<b>VK_9</b>	39	9 key
—	3A–40	Undefined
<b>VK_A</b>	41	A key
<b>VK_B</b>	42	B key
<b>VK_C</b>	43	C key
<b>VK_D</b>	44	D key
<b>VK_E</b>	45	E key
<b>VK_F</b>	46	F key
<b>VK_G</b>	47	G key
<b>VK_H</b>	48	H key
<b>VK_I</b>	49	I key
<b>VK_J</b>	4A	J key
<b>VK_K</b>	4B	K key
<b>VK_L</b>	4C	L key
<b>VK_M</b>	4D	M key
<b>VK_N</b>	4E	N key
<b>VK_O</b>	4F	O key
<b>VK_P</b>	50	P key
<b>VK_Q</b>	51	Q key
<b>VK_R</b>	52	R key
<b>VK_S</b>	53	S key
<b>VK_T</b>	54	T key
<b>VK_U</b>	55	U key
<b>VK_V</b>	56	V key
<b>VK_W</b>	57	W key
<b>VK_X</b>	58	X key
<b>VK_Y</b>	59	Y key
<b>VK_Z</b>	5A	Z key
<b>VK_LWIN</b>	5B	Left Windows key (Microsoft Natural Keyboard)
<b>VK_RWIN</b>	5C	Right Windows key (Microsoft Natural Keyboard)
<b>VK_APPS</b>	5D	Applications key (Microsoft Natural Keyboard)

—	5E–5F	Undefined
<b>VK_NUMPAD0</b>	60	Numeric keypad 0 key
<b>VK_NUMPAD1</b>	61	Numeric keypad 1 key
<b>VK_NUMPAD2</b>	62	Numeric keypad 2 key
<b>VK_NUMPAD3</b>	63	Numeric keypad 3 key
<b>VK_NUMPAD4</b>	64	Numeric keypad 4 key
<b>VK_NUMPAD5</b>	65	Numeric keypad 5 key
<b>VK_NUMPAD6</b>	66	Numeric keypad 6 key
<b>VK_NUMPAD7</b>	67	Numeric keypad 7 key
<b>VK_NUMPAD8</b>	68	Numeric keypad 8 key
<b>VK_NUMPAD9</b>	69	Numeric keypad 9 key
<b>VK_MULTIPLY</b>	6A	Multiply key
<b>VK_ADD</b>	6B	Add key
<b>VK_SEPARATOR</b>	6C	Separator key
<b>VK_SUBTRACT</b>	6D	Subtract key
<b>VK_DECIMAL</b>	6E	Decimal key
<b>VK_DIVIDE</b>	6F	Divide key
<b>VK_F1</b>	70	F1 key
<b>VK_F2</b>	71	F2 key
<b>VK_F3</b>	72	F3 key
<b>VK_F4</b>	73	F4 key
<b>VK_F5</b>	74	F5 key
<b>VK_F6</b>	75	F6 key
<b>VK_F7</b>	76	F7 key
<b>VK_F8</b>	77	F8 key
<b>VK_F9</b>	78	F9 key
<b>VK_F10</b>	79	F10 key
<b>VK_F11</b>	7A	F11 key
<b>VK_F12</b>	7B	F12 key
<b>VK_F13</b>	7C	F13 key
<b>VK_F14</b>	7D	F14 key
<b>VK_F15</b>	7E	F15 key
<b>VK_F16</b>	7F	F16 key
<b>VK_F17</b>	80H	F17 key
<b>VK_F18</b>	81H	F18 key
<b>VK_F19</b>	82H	F19 key
<b>VK_F20</b>	83H	F20 key
<b>VK_F21</b>	84H	F21 key
<b>VK_F22</b>	85H	F22 key
<b>VK_F23</b>	86H	F23 key
<b>VK_F24</b>	87H	F24 key
—	88–8F	Unassigned
<b>VK_NUMLOCK</b>	90	NUM LOCK key
<b>VK_SCROLL</b>	91	SCROLL LOCK key
—	92–B9	Unassigned
—	BA–C0	OEM specific
—	C1–DA	Unassigned

—	DB–E4	OEM specific
—	E5	Unassigned
—	E6	OEM specific
—	E7–E8	Unassigned
—	E9–F5	OEM specific
<b>VK_ATTN</b>	F6	Attn key
<b>VK_CRSEL</b>	F7	CrSel key
<b>VK_EXSEL</b>	F8	ExSel key
<b>VK_EREOF</b>	F9	Erase EOF key
<b>VK_PLAY</b>	FA	Play key
<b>VK_ZOOM</b>	FB	Zoom key
<b>VK_NONAME</b>	FC	Reserved for future use.
<b>VK_PA1</b>	FD	PA1 key
<b>VK_OEM_CLEAR</b>	FE	Clear key