74LVC06A

Hex inverter with open-drain outputs Rev. 6 — 10 November 2011

Product data sheet

1. **General description**

The 74LVC06A provides six inverting buffers. The outputs are open-drain and can be connected to other open-drain outputs to implement active-LOW wired-OR or active-HIGH wired-AND functions.

Inputs can be driven from either 3.3 V or 5 V devices. This feature allows the use of these devices as translators in mixed 3.3 V and 5 V applications.

Features and benefits 2.

- 5 V tolerant inputs and outputs (open-drain) for interfacing with 5 V logic
- Wide supply voltage range from 1.2 V to 5.5 V
- CMOS low power consumption
- Direct interface with TTL levels
- Complies with JEDEC standard:
 - ◆ JESD8-7A (1.65 V to 1.95 V)
 - ◆ JESD8-5A (2.3 V to 2.7 V)
 - ◆ JESD8-C/JESD36 (2.7 V to 3.6 V)
- ESD protection:
 - ♦ HBM JESD22-A114F exceeds 2000 V
 - MM JESD22-A115-B exceeds 200 V
 - CDM JESD22-C101E exceeds 1000 V
- Specified from -40 °C to +85 °C and -40 °C to +125 °C

Ordering information

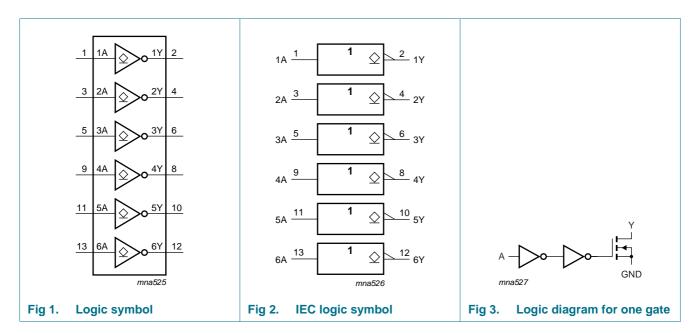
Table 1. **Ordering information**

Type number	Package									
	Temperature range	Name	Description	Version						
74LVC06AD	–40 °C to +125 °C	SO14	plastic small outline package; 14 leads; body width 3.9 mm	SOT108-1						
74LVC06APW	–40 °C to +125 °C	TSSOP14	plastic thin shrink outline package; 14 leads; body width 4.4 mm	SOT402-1						
74LVC06ABQ	–40 °C to +125 °C	DHVQFN14	plastic dual in-line compatible thermal enhanced very thin quad flat package; no leads; 14 terminals; body $2.5\times3\times0.85$ mm	SOT762-1						



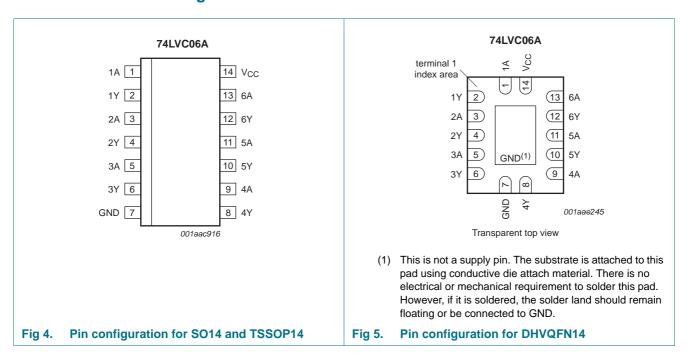
Hex inverter with open-drain outputs

4. Functional diagram



5. Pinning information

5.1 Pinning



Hex inverter with open-drain outputs

5.2 Pin description

Table 2. Pin description

Symbol	Pin	Description
1A, 2A, 3A, 4A, 5A, 6A	1, 3, 5, 9, 11, 13	data input
1Y, 2Y, 3Y, 4Y, 5Y, 6Y	2, 4, 6, 8, 10, 12	data output
GND	7	ground (0 V)
V _{CC}	14	supply voltage

6. Functional description

Table 3. Function selection [1]

Input	Output
nA	nY
L	Z
Н	L

^[1] H = HIGH voltage level; L = LOW voltage level; Z = high-impedance OFF-state

7. Limiting values

Table 4. Limiting values

In accordance with the Absolute Maximum Rating System (IEC 60134). Voltages are referenced to GND (ground = 0 V).

					-
Symbol	Parameter	Conditions	Min	Max	Unit
V_{CC}	supply voltage		-0.5	+6.5	V
I _{IK}	input clamping current	V _I < 0	-50	-	mA
VI	input voltage		<u>[1]</u> –0.5	+6.5	V
I _{OK}	output clamping current	V _O < 0	-50	-	mA
Vo	output voltage	active mode	<u>[2]</u> –0.5	+6.5	V
		high-impedance mode	<u>[2]</u> –0.5	+6.5	V
Io	output current	$V_O = 0 V \text{ to } V_{CC}$	-	50	mA
I _{CC}	supply current		-	100	mA
I_{GND}	ground current		-100	-	mA
T _{stg}	storage temperature		-65	+150	°C
P _{tot}	total power dissipation	$T_{amb} = -40 ^{\circ}\text{C} \text{ to } +125 ^{\circ}\text{C}$	<u>[3]</u> _	500	mW

^[1] The minimum input voltage ratings may be exceeded if the input current ratings are observed.

^[2] The output voltage ratings may be exceeded if the output current ratings are observed.

^[3] For SO14 packages: above 70 °C derate linearly with 8 mW/K.
For TSSOP14 packages: above 60 °C derate linearly with 5.5 mW/K.
For DHVQFN14 packages: above 60 °C derate linearly with 4.5 mW/K.

Hex inverter with open-drain outputs

8. Recommended operating conditions

Table 5. Recommended operating conditions

Symbol	Parameter	Conditions	Min	Тур	Max	Unit
-		Conditions		1,712		
V_{CC}	supply voltage		1.65	-	5.5	V
		functional	1.2	-	-	V
VI	input voltage		0	-	5.5	V
Vo	output voltage	active mode	0	-	5.5	V
		high-impedance mode	0	-	5.5	V
T _{amb}	ambient temperature		-40	-	+125	°C
$\Delta t/\Delta V$	input transition rise and fall rate	V_{CC} = 1.65 V to 2.7 V	0	-	20	ns/V
		$V_{CC} = 2.7 \text{ V to } 5.5 \text{ V}$	0	-	10	ns/V

9. Static characteristics

Table 6. Static characteristics

At recommended operating conditions. Voltages are referenced to GND (ground = 0 V).

Symbol	Parameter	Conditions	-40	°C to +8	35 °C	-40 °C to	+125 °C	Unit
			Min	Typ[1]	Max	Min	Max	
V_{IH}	HIGH-level	V _{CC} = 1.2 V	1.08	-	-	1.08	-	V
	input voltage	V _{CC} = 1.65 V to 1.95 V	$0.65 \times V_{CC}$	-	-	$0.65 \times V_{CC}$	-	V
		V _{CC} = 2.3 V to 2.7 V	1.7	-	-	1.7	-	V
		V _{CC} = 2.7 V to 3.6 V	2.0	-	-	2.0	-	V
		V _{CC} = 4.5 V to 5.5 V	$0.7 \times V_{CC}$	-	-	$0.7 \times V_{CC}$	-	V
V_{IL}	LOW-level input	V _{CC} = 1.2 V	-	-	0.12	-	0.12	V
	voltage	V _{CC} = 1.65 V to 1.95 V	-	-	$0.35 \times V_{CC}$	-	$0.35 \times V_{CC}$	V
		V _{CC} = 2.3 V to 2.7 V	-	-	0.7	-	0.7	V
		V _{CC} = 2.7 V to 3.6 V	-	-	0.8	-	8.0	V
		V _{CC} = 4.5 V to 5.5 V	-	-	$0.30 \times V_{CC}$	-	$0.30 \times V_{CC}$	V
V_{OL}	LOW-level output voltage	$V_I = V_{IH}$ or V_{IL}						
		$I_O = 100 \mu A;$ $V_{CC} = 1.65 \text{ V to } 5.5 \text{ V}$	-	-	0.20	-	0.3	V
		$I_O = 4 \text{ mA}; V_{CC} = 1.65 \text{ V}$	-	-	0.45	-	0.6	V
		$I_O = 8 \text{ mA}; V_{CC} = 2.3 \text{ V}$	-	-	0.3	-	0.75	V
		$I_O = 12 \text{ mA}; V_{CC} = 2.7 \text{ V}$	-	-	0.4	-	0.6	V
		$I_O = 24 \text{ mA}; V_{CC} = 3.0 \text{ V}$	-	-	0.55	-	0.8	V
		$I_O = 32 \text{ mA}; V_{CC} = 4.5 \text{ V}$	-	-	0.55	-	0.8	V
I _I	input leakage current	V _I = 5.5 V or GND; V _{CC} = 1.65 V to 5.5 V	-	±0.1	±5	-	±20	μА
l _{OZ}	OFF-state output current	$V_I = V_{IH}; V_O = 5.5 \text{ V or GND};$ $V_{CC} = 1.65 \text{ V to } 5.5 \text{ V}$	-	±0.1	±10	-	±20	μА
l _{OFF}	power-off leakage current	V_I or $V_O = 5.5$ V; $V_{CC} = 0$ V	-	±0.1	±10	-	±20	μΑ

Hex inverter with open-drain outputs

 Table 6.
 Static characteristics ...continued

At recommended operating conditions. Voltages are referenced to GND (ground = 0 V).

Symbol	Parameter	Conditions	-40	°C to +8	35 °C	-40 °C to	o +125 °C	Unit
			Min	Typ[1]	Max	Min	Max	
I _{CC}	supply current	$V_I = V_{CC}$ or GND; $I_O = 0$ A; $V_{CC} = 5.5 \text{ V}$	-	0.1	10	-	40	μΑ
ΔI_{CC}	additional supply current	per input pin; $V_I = V_{CC} - 0.6 \text{ V}; I_O = 0 \text{ A};$ $V_{CC} = 2.7 \text{ V to } 5.5 \text{ V}$	-	5	500	-	5000	μА
C _I	input capacitance	$V_{CC} = 0 \text{ V to } 5.5 \text{ V};$ $V_{I} = \text{GND to } V_{CC}$	-	5.0	-	-	-	pF

^[1] All typical values are measured at V_{CC} = 3.3 V (unless stated otherwise) and T_{amb} = 25 °C.

10. Dynamic characteristics

Table 7. Dynamic characteristics

Voltages are referenced to GND (ground = 0 V). For test circuit see <u>Figure 7</u>.

Symbol	Parameter	Conditions		-40	°C to +8	5 °C	-40 °C to	+125 °C	Unit
				Min	Typ[1]	Max	Min	Max	
t_{PZL}	OFF-state to LOW	nA to nY; see Figure 6	'						
	propagation delay	V _{CC} = 1.2 V		-	9	-	-	-	ns
		$V_{CC} = 1.65 \text{ V to } 1.95 \text{ V}$		0.5	2.8	5.7	0.5	6.7	ns
		$V_{CC} = 2.3 \text{ V to } 2.7 \text{ V}$		0.5	1.9	3.1	0.5	4.0	ns
		$V_{CC} = 2.7 \text{ V}$		0.5	1.8	3.9	0.5	5.0	ns
		$V_{CC} = 3.0 \text{ V to } 3.6 \text{ V}$		0.5	1.8	3.7	0.5	5.0	ns
		$V_{CC} = 4.5 \text{ V to } 5.5 \text{ V}$		0.7	1.5	2.5	0.7	3.5	ns
t_{PLZ}	LOW to OFF-state propagation delay	nA to nY; see Figure 6							
		V _{CC} = 1.2 V		-	10	-	-	-	ns
		$V_{CC} = 1.65 \text{ V to } 1.95 \text{ V}$		0.5	2.6	5.7	0.5	6.7	ns
		$V_{CC} = 2.3 \text{ V to } 2.7 \text{ V}$		0.5	1.4	3.1	0.5	4.0	ns
		$V_{CC} = 2.7 \text{ V}$		0.5	2.6	3.9	0.5	5.0	ns
		$V_{CC} = 3.0 \text{ V to } 3.6 \text{ V}$		0.5	2.2	3.7	0.5	5.0	ns
		$V_{CC} = 4.5 \text{ V to } 5.5 \text{ V}$		0.6	1.5	2.6	0.6	3.5	ns
C_{PD}	power dissipation	per buffer; $V_I = GND$ to V_{CC}	[2]						
	capacitance	$V_{CC} = 1.65 \text{ V to } 1.95 \text{ V}$		-	6.5	-	-	-	pF
		$V_{CC} = 2.3 \text{ V to } 2.7 \text{ V}$		-	6.9	-	-	-	pF
		$V_{CC} = 3.0 \text{ V to } 3.6 \text{ V}$		-	7.2	-	-	-	pF

^[1] Typical values are measured at T_{amb} = 25 °C and V_{CC} = 1.2 V, 1.8 V, 2.5 V, 2.7 V, 3.3 V and 5.0 V respectively.

 $P_D = C_{PD} \times V_{CC}^2 \times f_i \times N + \Sigma (C_L \times V_{CC}^2 \times f_o)$ where:

 f_i = input frequency in MHz; f_o = output frequency in MHz

 C_L = output load capacitance in pF

V_{CC} = supply voltage in Volts

N = number of inputs switching

 $\Sigma(C_L \times V_{CC}^2 \times f_o)$ = sum of the outputs

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^[2] C_{PD} is used to determine the dynamic power dissipation (P_D in μW).

Hex inverter with open-drain outputs

11. Waveforms

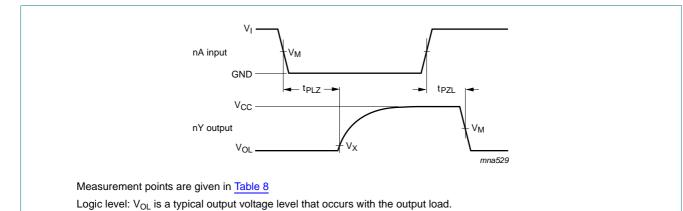
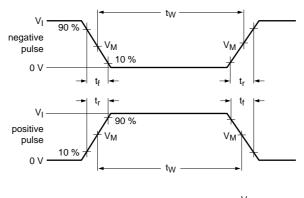


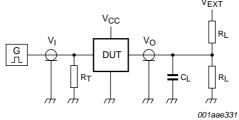
Fig 6. The input nA to output nY propagation delays

Table 8. Measurement points

Supply voltage	Input	Output
V _{CC}	V _M	V _X
< 2.7 V	$0.5 \times V_{CC}$	V _{OL} + 0.15 V
\geq 2.7 V to 3.6 V	1.5 V	V _{OL} + 0.3 V
\geq 4.5 V to 5.5 V	$0.5 \times V_{CC}$	V _{OL} + 0.3 V

Hex inverter with open-drain outputs





Test data is given in Table 9.

Definitions for test circuit:

R_L = Load resistance.

 C_L = Load capacitance including jig and probe capacitance.

 R_T = Termination resistance should be equal to output impedance Z_0 of the pulse generator.

 V_{EXT} = External voltage for measuring switching times.

Fig 7. Load circuitry for switching times

Table 9. Test data

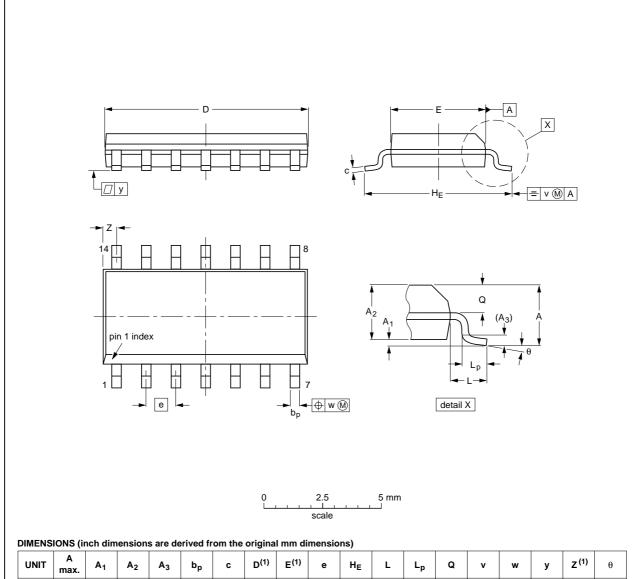
Supply voltage	Input		Load		V _{EXT}	V _{EXT}			
	VI	t _r , t _f	CL	R_L	t _{PLH} , t _{PHL}	t_{PLZ}, t_{PZL}	t _{PHZ} , t _{PZH}		
1.2 V	V_{CC}	\leq 2 ns	30 pF	1 kΩ	open	$2\times V_{CC}$	GND		
1.65 V to 1.95 V	V_{CC}	≤ 2 ns	30 pF	1 kΩ	open	$2\times V_{CC}$	GND		
2.3 V to 2.7 V	V_{CC}	≤ 2 ns	30 pF	500Ω	open	$2\times V_{CC}$	GND		
2.7 V	2.7 V	≤ 2.5 ns	50 pF	500Ω	open	$2 \times V_{CC}$	GND		
3.0 V to 3.6 V	2.7 V	≤ 2.5 ns	50 pF	500Ω	open	$2\times V_{CC}$	GND		
4.5 V to 5.5 V	V_{CC}	≤ 2.5 ns	50 pF	500Ω	open	$2\times V_{CC}$	GND		

Hex inverter with open-drain outputs

12. Package outline

SO14: plastic small outline package; 14 leads; body width 3.9 mm

SOT108-1



UNIT	A max.	A ₁	A ₂	A ₃	bp	С	D ⁽¹⁾	E ⁽¹⁾	е	HE	L	Lp	Q	v	w	у	z ⁽¹⁾	θ
mm	1.75	0.25 0.10	1.45 1.25	0.25	0.49 0.36	0.25 0.19	8.75 8.55	4.0 3.8	1.27	6.2 5.8	1.05	1.0 0.4	0.7 0.6	0.25	0.25	0.1	0.7 0.3	8°
inches	0.069	0.010 0.004	0.057 0.049	0.01		0.0100 0.0075	0.35 0.34	0.16 0.15	0.05	0.244 0.228	0.041	0.039 0.016	0.028 0.024	0.01	0.01	0.004	0.028 0.012	0°

Note

1. Plastic or metal protrusions of 0.15 mm (0.006 inch) maximum per side are not included.

OUTLINE		REFER	EUROPEAN	ISSUE DATE			
VERSION	IEC	JEDEC	JEITA		PROJECTION	ISSUE DATE	
SOT108-1	076E06	MS-012				99-12-27 03-02-19	

Fig 8. Package outline SOT108-1 (SO14)

74LVC06A

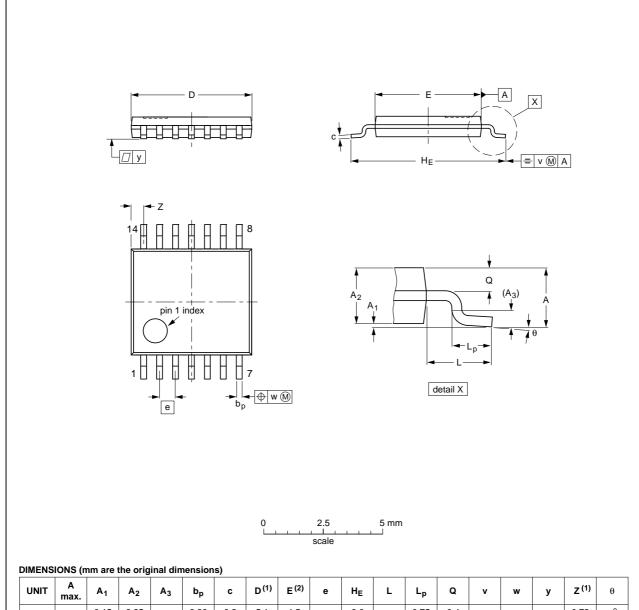
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TSSOP14: plastic thin shrink small outline package; 14 leads; body width 4.4 mm

SOT402-1



	•					•												
UNIT	A max.	A ₁	A ₂	A ₃	bp	С	D ⁽¹⁾	E ⁽²⁾	е	HE	L	Lp	Q	v	w	у	Z ⁽¹⁾	θ
mm	1.1	0.15 0.05	0.95 0.80	0.25	0.30 0.19	0.2 0.1	5.1 4.9	4.5 4.3	0.65	6.6 6.2	1	0.75 0.50	0.4 0.3	0.2	0.13	0.1	0.72 0.38	8° 0°

- 1. Plastic or metal protrusions of 0.15 mm maximum per side are not included.
- 2. Plastic interlead protrusions of 0.25 mm maximum per side are not included.

OUTLINE		REFER	EUROPEAN	ISSUE DATE			
VERSION	IEC	JEDEC	JEITA		PROJECTION	ISSUE DATE	
SOT402-1		MO-153				99-12-27 03-02-18	
							-

Fig 9. Package outline SOT402-1 (TSSOP14)

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DHVQFN14: plastic dual in-line compatible thermal enhanced very thin quad flat package; no leads; 14 terminals; body 2.5 x 3 x 0.85 mm SOT762-1

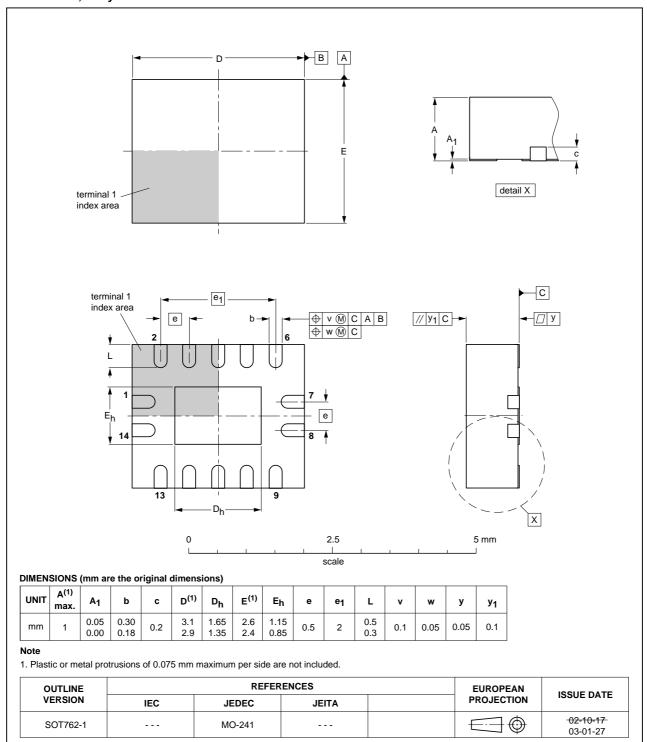


Fig 10. Package outline SOT762-1 (DHVQFN14)

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13. Abbreviations

Table 10. Abbreviations

Acronym	Description
CDM	Charged Device Model
DUT	Device Under Test
ESD	ElectroStatic Discharge
HBM	Human Body Model
MM	Machine Model
TTL	Transistor-Transistor Logic

14. Revision history

Table 11. Revision history

Document ID	Release date	Data sheet status	Change notice	Supersedes
74LVC06A v.6	20111110	Product data sheet	-	74LVC06A v.5
Modifications:	• <u>Table 6</u> : Condi	tions column, additional sur	oply current V _{CC} range	updated
74LVC06A v.5	20111024	Product data sheet	-	74LVC06A v.4
Modifications:	Table 7: values	s added for lower voltage ra	nges	
74LVC06A v.4	20110810	Product data sheet	-	74LVC06A v.3
Modifications:	 The format of to of NXP Semice 		designed to comply with	n the new identity guidelines
	 Legal texts have 	ve been adapted to the new	company name where	appropriate.
	 Table 4, Table 	5, Table 6, Table 7, and Tab	ole 9: values added for	lower voltage ranges.
74LVC06A v.3	20031127	Product specification	-	74LVC06A v.2
74LVC06A v.2	20030828	Product specification	-	74LVC06A v.1
74LVC06A v.1	20000307	Product specification	-	-

Hex inverter with open-drain outputs

15. Legal information

15.1 Data sheet status

Document status[1][2]	Product status[3]	Definition
Objective [short] data sheet	Development	This document contains data from the objective specification for product development.
Preliminary [short] data sheet	Qualification	This document contains data from the preliminary specification.
Product [short] data sheet	Production	This document contains the product specification.

- [1] Please consult the most recently issued document before initiating or completing a design
- [2] The term 'short data sheet' is explained in section "Definitions"
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