74AVC16245

16-bit transceiver with direction pin; 3.6 V tolerant; 3-state

Rev. 3 — 31 January 2013

Product data sheet

1. General description

The 74AVC16245 is a 16-bit transceiver featuring non-inverting 3-state bus compatible outputs in both send and receive directions. The device features two output enable inputs (nOE) for easy cascading and two send/receive inputs (nDIR) for direction control. Inputs nOE control the outputs so that the buses are effectively isolated. This device can be used as two 8-bit transceivers or one 16-bit transceiver.

The 74AVC16245 is designed to have an extremely fast propagation delay and a minimum amount of power consumption.

To ensure the high-impedance output state during power-up or power-down, tie pins $n\overline{OE}$ to V_{CC} through a pull-up resistor (Live Insertion).

A Dynamic Controlled Output (DCO) circuitry is implemented to support termination line drive during transient (see Figure 4 and Figure 5)

2. Features and benefits

- Wide supply voltage range from 1.2 V to 3.6 V
- Complies with JEDEC standards:
 - ◆ JESD8-7 (1.2 V to 1.95 V)
 - ◆ JESD8-5 (1.8 V to 2.7 V)
 - ◆ JESD8-1A (2.7 V to 3.6 V)
- CMOS low power consumption
- Input/output tolerant up to 3.6 V
- Dynamic Controlled Output (DCO) circuit dynamically changes output impedance, resulting in noise reduction without speed degradation
- Low inductance multiple VCC and GND pins to minimize noise and ground bounce
- Supports Live Insertion

3. Ordering information

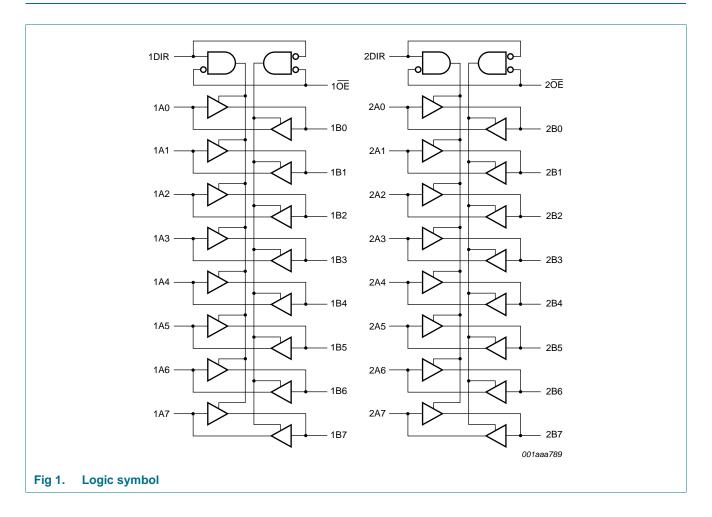
Table 1. Ordering information

Type number	Package					
	Temperature range	Name	Description	Version		
74AVC16245DGG	–40 °C to +85 °C	TSSOP48	plastic thin shrink small outline package; 48 leads; body width 6.1 mm	SOT362-1		

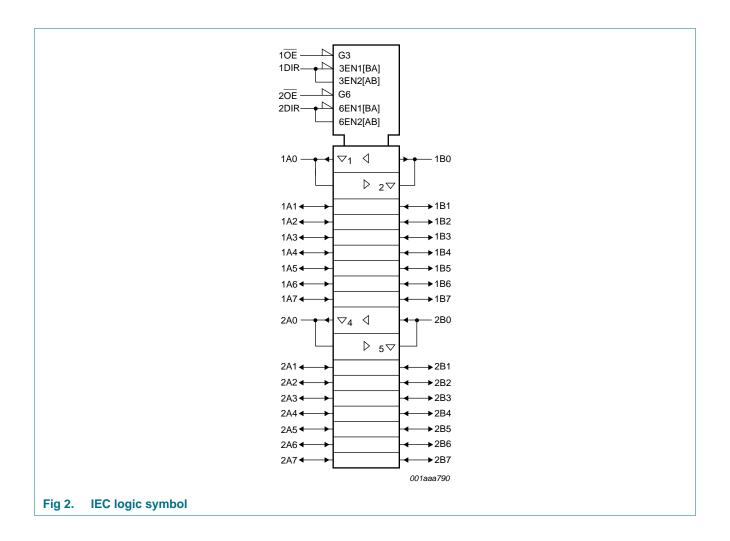


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4. Functional diagram



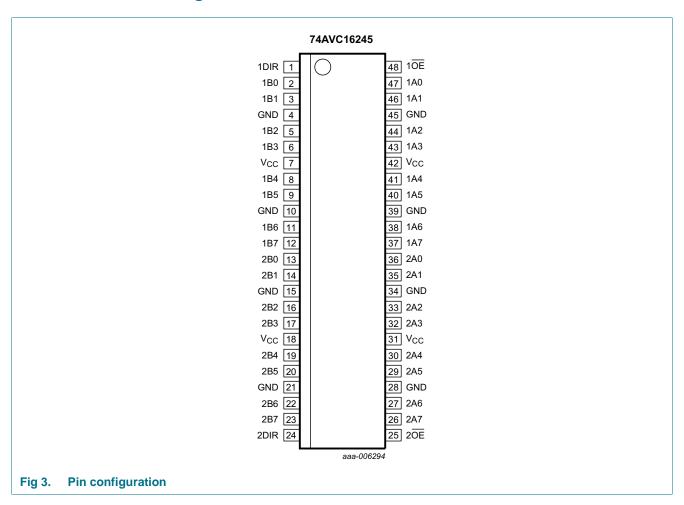
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5. Pinning information

5.1 Pinning



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5.2 Pin description

Table 2. Pin description

Symbol	Pin	Description
1DIR, 2DIR	1, 24	direction control input
1B0 to 1B7	2, 3, 5, 6, 8, 9, 11, 12	data input/output
2B0 to 2B7	13, 14, 16, 17, 19, 20, 22, 23	data input/output
GND	4, 10, 15, 21, 28, 34, 39, 45	ground (0 V)
V _{CC}	7, 18, 31, 42	supply voltage
1 0 E, 2 0 E	48, 25	output enable input (active LOW)
1A0 to 1A7	47, 46, 44, 43, 41, 40, 38, 37	data input/output
2A0 to 2A7	36, 35, 33, 32, 30, 29, 27, 26	data input/output

6. Functional description

Table 3. Function table[1]

nOE nDIR		Outputs		
nOE	nDIR	nAn	nBn	
L	L	A = B	inputs	
L	Н	inputs	B = A	
Н	X	Z	Z	

^[1] H = HIGH voltage level; L = LOW voltage level; X = don't care; 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	+4.6	V
I_{IK}	input clamping current	V _I < 0 V	-50	-	mA
V_{I}	input voltage		<u>[1]</u> –0.5	+4.6	V
I_{OK}	output clamping current	V _O < 0 V	-50	-	mA
V_{O}	output voltage	output HIGH or LOW	<u>[1]</u> –0.5	$V_{CC} + 0.5$	V
		output 3-state	<u>[1]</u> –0.5	+4.6	V
I _O	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	$T_{amb} = -40 ^{\circ}\text{C} \text{ to } +125 ^{\circ}\text{C}$	[2] _	500	mW

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

^[2] Above 60 $^{\circ}\text{C},$ the value of Ptot derates linearly with 5.5 mW/K.

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8. Recommended operating conditions

Table 5. Recommended operating conditions

Symbol	Parameter	Conditions	Min	Тур	Max	Unit
V_{CC}	supply voltage	supply voltage according to JEDEC Low Voltage Standards		-	1.6	V
			1.65	-	1.95	V
			2.3	-	2.7	V
			3.0	-	3.6	V
		for low-voltage applications	1.2	-	3.6	V
VI	input voltage		0	-	3.6	V
Vo	output voltage	output HIGH or LOW	0	-	V_{CC}	V
		output 3-state	0	-	3.6	V
T _{amb}	ambient temperature	in free air	-40	-	+85	°C
$\Delta t/\Delta V$	input transition rise and fall	V _{CC} = 1.4 V to 1.6 V	0	-	40	ns/V
	rate	V _{CC} = 1.65 V to 1.95 V	0	-	30	ns/V
		V _{CC} = 2.3 V to 3.0 V	0	-	20	ns/V
		V _{CC} = 3.0 V to 3.6 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	Min	Typ[1]	Max	Unit
T _{amb} = -	40 °C to +85 °C					
V_{IH}	HIGH-level input voltage	V _{CC} = 1.2 V	V_{CC}	-	-	V
		V _{CC} = 1.4 V to 1.6 V	$0.65 \times V_{CC}$	0.9	-	V
		V _{CC} = 1.65 V to 1.95 V	$0.65 \times V_{CC}$	0.9	-	V
		$V_{CC} = 2.3 \text{ V to } 2.7 \text{ V}$	1.7	1.2	-	V
		V _{CC} = 3.0 V to 3.6 V	2.0	1.5	-	V
V_{IL}	LOW-level input voltage	V _{CC} = 1.2 V	-	-	GND	V
		V _{CC} = 1.4 V to 1.6 V	-	0.9	$0.35 \times V_{CC}$	V
		V _{CC} = 1.65 V to 1.95 V	-	0.9	$0.35 \times V_{CC}$	V
		V _{CC} = 2.3 V to 2.7 V	-	1.2	0.7	V
		V _{CC} = 3.0 V to 3.6 V	-	1.5	8.0	V
V_{OH}	HIGH-level output voltage	$V_I = V_{IH}$ or V_{IL}				
		$I_{O} = -100 \mu A$; $V_{CC} = 1.65 \text{ V to } 3.6 \text{ V}$	$V_{CC}-0.20$	V_{CC}	-	V
		$I_{O} = -3 \text{ mA}; V_{CC} = 1.4 \text{ V}$	$V_{CC}-0.35$	$V_{CC} - 0.21$	-	V
		$I_{O} = -4 \text{ mA}; V_{CC} = 1.65 \text{ V}$	$V_{CC}-0.45$	$V_{CC}-0.25$	-	V
		$I_{O} = -8 \text{ mA}; V_{CC} = 2.3 \text{ V}$	$V_{CC}-0.55$	V _{CC} - 0.37	-	V
		$I_{O} = -12 \text{ mA}; V_{CC} = 3.0 \text{ V}$	$V_{CC}-0.70$	V _{CC} - 0.47	-	V

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Table 6. Static characteristics ...continued
At recommended operating conditions. Voltages are referenced to GND (ground = 0 V).

	Parameter	Conditions	Min	Typ <mark>[1]</mark>	Max	Unit
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 3.6 V	-	GND	0.20	V
		$I_O = 3 \text{ mA}; V_{CC} = 1.4 \text{ V}$	-	0.22	0.35	V
		$I_O = 4 \text{ mA}; V_{CC} = 1.65 \text{ V}$	-	0.24	0.45	V
		$I_O = 8 \text{ mA}; V_{CC} = 2.3 \text{ V}$	-	0.38	0.55	V
		$I_O = 12 \text{ mA}; V_{CC} = 3.0 \text{ V}$	-	0.53	0.70	V
I _I	input leakage current	$V_I = V_{CC}$ or GND; $V_{CC} = 1.4 \text{ V}$ to 3.6 V	-	0.1	2.5	μΑ
I _{OFF}	power-off leakage current	V_{I} or $V_{O} = 3.6 \text{ V}$; $V_{CC} = 0.0 \text{ V}$	-	±0.1	±10	μΑ
l _{OZ}	OFF-state output current	$V_I = V_{IH}$ or V_{IL} ; $V_O = V_{CC}$ or GND				
		$V_{CC} = 1.4 \text{ V to } 2.7 \text{ V}$	-	0.1	5	μΑ
		$V_{CC} = 3.0 \text{ V to } 3.6 \text{ V}$	-	0.1	10	μΑ
I _{CC}	supply current	$V_I = V_{CC}$ or GND; $I_O = 0$ A				
		$V_{CC} = 1.4 \text{ V to } 2.7 \text{ V}$	-	0.1	20	μΑ
		V _{CC} = 3.0 V to 3.6 V	-	0.2	40	μΑ
Cı	input capacitance		-	5.0	-	pF

^[1] All typical values are measured at T_{amb} = 25 °C.

9.1 Graphs

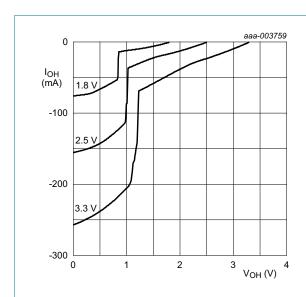


Fig 4. Output voltage as a function of the HIGH-level output current.

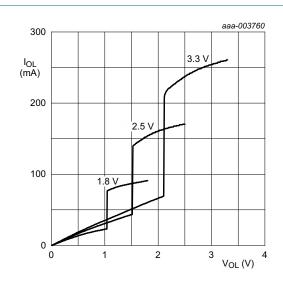


Fig 5. Output voltage as a function of the LOW-level output current.

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10. Dynamic characteristics

Table 7. Dynamic characteristics

Voltages are referenced to GND (ground = 0 V). For test circuit see Figure 8.

Symbol	Parameter	Conditions		-40	°C to +85	°C	Unit
				Min	Typ[2]	Max	
t _{pd}	propagation delay	nAn to nBn; nBn to nAn; see Figure 6	<u>[1]</u>				
		V _{CC} = 1.2 V		-	2.8	-	ns
		V _{CC} = 1.4 V to 1.6 V		-	1.8	-	ns
		V _{CC} = 1.65 V to 1.95 V		0.7	1.8	3.0	ns
		$V_{CC} = 2.3 \text{ V to } 2.7 \text{ V}$		0.6	1.3	1.9	ns
		$V_{CC} = 3.0 \text{ V to } 3.6 \text{ V}$		0.5	1.1	1.7	ns
t _{en}	enable time	nOE to nAn, nBn; see Figure 7	[1]				
		V _{CC} = 1.2 V		-	5.9	-	ns
		V _{CC} = 1.4 V to 1.6 V		-	3.9	-	ns
		V _{CC} = 1.65 V to 1.95 V		1.4	3.3	6.5	ns
		V _{CC} = 2.3 V to 2.7 V		1.0	2.4	4.5	ns
		V _{CC} = 3.0 V to 3.6 V		0.7	2.0	3.7	ns
t _{dis}	disable time	nOE to nAn, nBn; see Figure 7	[1]				
		V _{CC} = 1.2 V		-	6.9	-	ns
		V _{CC} = 1.4 V to 1.6 V		-	4.8	-	ns
		$V_{CC} = 1.65 \text{ V to } 1.95 \text{ V}$		2.2	3.7	6.0	ns
		$V_{CC} = 2.3 \text{ V to } 2.7 \text{ V}$		1.1	2.0	4.2	ns
		$V_{CC} = 3.0 \text{ V to } 3.6 \text{ V}$		1.2	2.2	3.7	ns
C_{PD}	power dissipation	per input; $V_I = GND$ to V_{CC}	<u>[3]</u>				
	capacitance	outputs enabled		-	42	-	pF
		outputs disabled		-	2	-	pF

^[1] t_{pd} is the same as t_{PLH} and t_{PHL} .

 t_{en} is the same as t_{PZL} and t_{PZH} .

 $t_{\mbox{\scriptsize dis}}$ is the same as $t_{\mbox{\scriptsize PLZ}}$ and $t_{\mbox{\scriptsize PHZ}}.$

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

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

 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

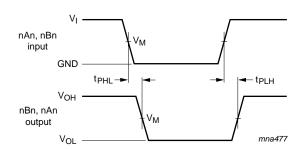
N = number of inputs switching

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

^[2] Typical values are measured at T_{amb} = 25 °C and V_{CC} = 1.2 V, 1.5 V, 1.8 V, 2.5 V and 3.3 V respectively.

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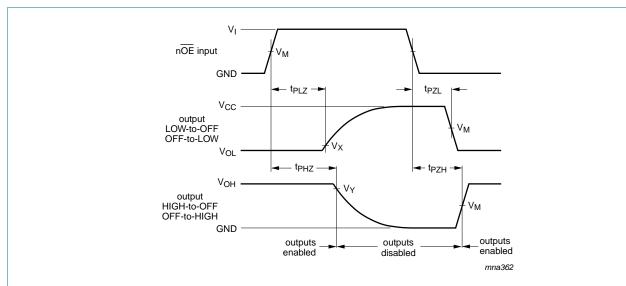
11. Waveforms



Measurement points are given in Table 8.

Logic levels: V_{OL} and V_{OH} are typical output voltage levels that occur with the output load.

Fig 6. The input (nAn, nBn) to output (nBn, nAn) propagation delays



Measurement points are given in Table 8.

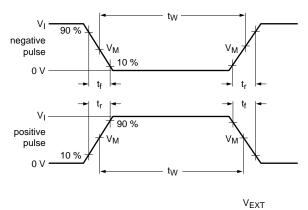
Logic levels: V_{OL} and V_{OH} are typical output voltage levels that occur with the output load.

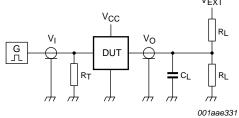
Fig 7. 3-state enable and disable times

Table 8. Measurement points

Supply voltage	V _M	Input	Input				
V _{CC}		VI	$t_r = t_f$	V _X	V _Y		
1.2 V	$0.5 \times V_{\text{CC}}$	V_{CC}	≤ 2 ns	V _{OL} + 0.15 V	$V_{OH}-0.15\ V$		
1.4 V to 1.6 V	$0.5 \times V_{CC}$	V_{CC}	≤ 2 ns	V _{OL} + 0.15 V	$V_{OH}-0.15~V$		
1.65 V to 1.95 V	$0.5 \times V_{\text{CC}}$	V_{CC}	≤ 2 ns	V _{OL} + 0.15 V	$V_{OH}-0.15\ V$		
2.3 V to 2.7 V	$0.5 \times V_{\text{CC}}$	V_{CC}	≤ 2 ns	V _{OL} + 0.15 V	$V_{OH}-0.15\ V$		
3.0 V to 3.6 V	$0.5 \times V_{CC}$	V_{CC}	≤ 2 ns	V _{OL} + 0.3 V	$V_{OH}-0.3~V$		

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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 8. Test circuit for measuring switching times

Table 9. Test data

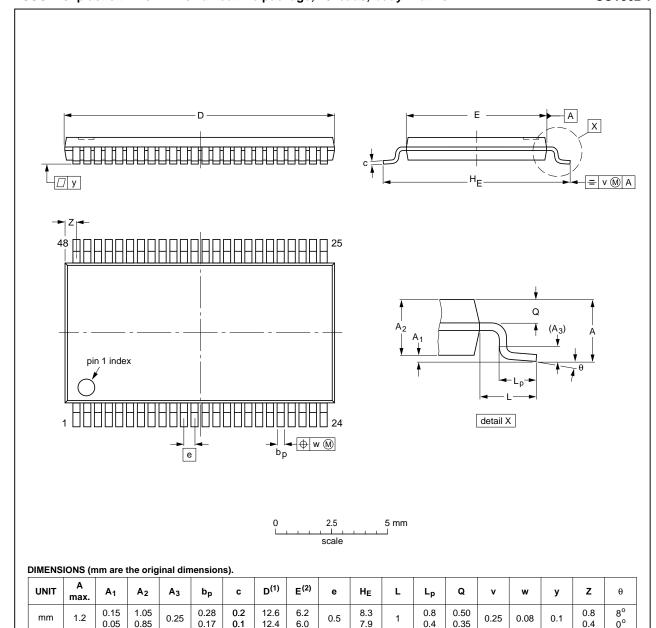
Supply voltage	ly voltage Input Load		V _{EXT}	V _{EXT}			
	VI	t _r , t _f	CL	R_L	t _{PLH} , t _{PHL}	t_{PLZ}, t_{PZL}	t_{PHZ} , t_{PZH}
1.2 V	V_{CC}	≤ 2 ns	15 pF	$2 \text{ k}\Omega$	open	$2\times V_{CC}$	GND
1.4 V to 1.6 V	V_{CC}	≤ 2 ns	15 pF	2 kΩ	open	$2\times V_{CC}$	GND
1.65 V to 1.95 V	V_{CC}	≤ 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
3.0 V to 3.6 V	V_{CC}	≤ 2 ns	30 pF	500Ω	open	$2\times V_{CC}$	GND

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12. Package outline

TSSOP48: plastic thin shrink small outline package; 48 leads; body width 6.1 mm

SOT362-1



Notes

- 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	ENCES	EUROPEAN	ISSUE DATE	
VERSION	IEC	JEDEC	JEITA	PROJECTION	ISSUE DATE	
SOT362-1		MO-153			99-12-27 03-02-19	

Fig 9. Package outline SOT362-1 (TSSOP48)

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13. Abbreviations

Table 10. Abbreviations

Acronym	Description
CMOS	Complementary Metal-Oxide Semiconductor
DUT	Device Under Test
TTL	Transistor-Transistor Logic

14. Revision history

Table 11. Revision history

Document ID	Release date	Data sheet status	Change notice	Order number	Supersedes
74AVC16245 v.3	20130131	Product data sheet	-	-	74AVC16245 v.2
Modifications:	guidelines	at of this data sheet has be s of NXP Semiconductors.	•	. ,	•
	 Legal text 	s have been adapted to th	ie new company r	ame where appr	opriate.
74AVC16245 v.2	19991115	Product specification	-	-	74AVC16245 v.1
74AVC16245 v.1	19981211	Product specification	-	-	-

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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.

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