AM26LV31C, AM26LV31I LOW-VOLTAGE HIGH-SPEED QUADRUPLE DIFFERENTIAL LINE DRIVERS

RUMENTS www.ti.com

SLLS201G-MAY 1995-REVISED MAY 2005

16 V_{CC}

		D OF	R NS PAC	KAGE
	Switching Rates up to 32 MHz	-	(TOP VIEW	-
	Operate From a Single 3.3-V Supply	L	$\overline{\mathbf{t}}$	l
	Propagation Delay Time 8 ns Typ	1A [1 16	
,	Pulse Skew Time 500 ps Typ	1Y [2 15	5 [4A
	High Output-Drive Current ±30 mA	1Z [3 14	4 [] 4 Y
	•	G	4 13	3 🛛 4Z
•	Controlled Rise and Fall Times 3 ns Typ	2Z 🛛	5 12	2] G
•	Differential Output Voltage With 100- Ω	2Y 🛛	6 1 [′]	1 🛛 3Z
	Load 1.5 V Typ	2A 🛛	7 10	D] 3Y
	Ultra-Low Power Dissipation	GND [8 9	9] 3A
		L		

- dc, 0.3 mW Max
- 32 MHz All Channels (No Load), 385 mW Typ
- Accept 5-V Logic Inputs With 3.3-V Supply
- Low-Voltage Pin-to-Pin Compatible Replacement for AM26C31, AM26LS31, MB571
- **High Output Impedance in Power-Off** Condition
- **Driver Output Short-Protection Circuit**
- **Package Options Include Plastic** Small-Outline (D, NS) Packages

DESCRIPTION/ORDERING INFORMATION

The AM26LV31C and AM26LV31I are BiCMOS quadruple differential line drivers with 3-state outputs. They are designed to be similar to TIA/EIA-422-B and ITU Recommendation V.11 drivers with reduced supply-voltage range.

The devices are optimized for balanced-bus transmission at switching rates up to 32 MHz. The outputs have very high current capability for driving balanced lines such as twisted-pair transmission lines and provide a high impedance in the power-off condition. The enable function is common to all four drivers and offers the choice of active-high or active-low enable inputs. The AM26LV31C and AM26LV31I are designed using Texas Instruments proprietary LinIMPACT-C60[™] technology, facilitating ultra-low power consumption without sacrificing speed. These devices offer optimum performance when used with the AM26LV32 guadruple line receivers.

The AM26LV31C is characterized for operation from 0°C to 70°C. The AM26LV31I is characterized for operation from -45°C to 85°C

T _A	PACKAGE ⁽¹⁾		ORDERABLE PART NUMBER	TOP-SIDE MARKING		
	SOIC – D	Tana and real	AM26LV31CD			
0°C to 70°C	50IC - D	IC – D Tape and reel AM26LV31CDR		AM26LV31C		
	SOIC - NS	Tana and real	AM26LV31CNS	261 1/24		
	SOIC – NS Tape and reel		AM26LV31CNSR			
		Tana and soal	AM26LV31ID			
4500 to 0500	SOIC – D	Tape and reel	AM26LV31IDR	AM26LV31I		
–45°C to 85°C		Tana and soal	AM26LV31INS	001 1/041		
	SOIC – NS	Tape and reel	AM26LV31INSR	26LV31I		

ORDERING INFORMATION

(1) Package drawings, standard packing quantities, thermal data, symbolization, and PCB design guidelines are available at www.ti.com/sc/package.



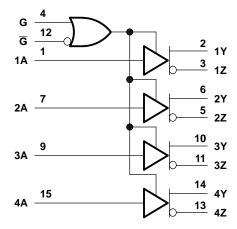
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INPUT	ENA	BLES	OUT	PUTS					
Α	G	G	Y	Z					
Н	н	Х	н	L					
L	н	Х	L	н					
Н	х	L	н	L					
L	х	L	L	н					
Х	L	Н	Z	Z					

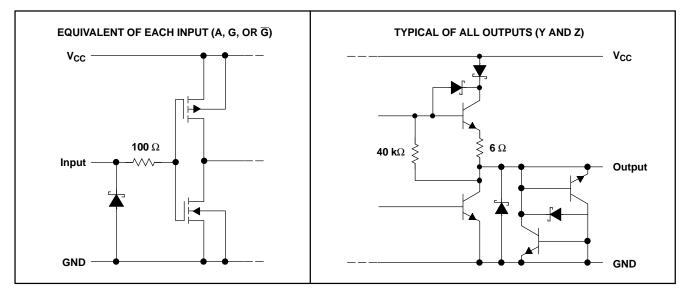
FUNCTION TABLE⁽¹⁾

(1) H = high level, L = low level, X = irrelevant, Z = high impedance (off)

LOGIC DIAGRAM (POSITIVE LOGIC)



SCHEMATIC (EACH DRIVER)



All resistor values are nominal.

Absolute Maximum Ratings⁽¹⁾

over operating free-air temperature range (unless otherwise noted)

			MIN	MAX	UNIT
V_{CC}	Supply voltage range ⁽²⁾		-0.3	6	V
VI	Input voltage range		-0.3	6	V
Vo	Output voltage range		-0.3	6	V
0	Package thermal impedance ⁽³⁾	D package		73	°C/W
θ_{JA}		NS package		64	C/W
	Lead temperature	1,6 mm (1/16 in) from case for 10 s		260	°C
T _{stg}	Storage temperature range		-65	150	°C

(1) Stresses beyond those listed under "absolute maximum ratings" may cause permanent damage to the device. These are stress ratings only, and functional operation of the device at these or any other conditions beyond those indicated under "recommended operating conditions" is not implied. Exposure to absolute-maximum-rated conditions for extended periods may affect device reliability.

All voltage values are with respect to GND. (2)

(3) The package thermal impedance is calculated in accordance with JESD 51-7.

Recommended Operating Conditions

				MIN	NOM	MAX	UNIT
V_{CC}	Supply voltage			3	3.3	3.6	V
V_{IH}	High-level input voltage	2			V		
V_{IL}	Low-level input voltage					0.8	V
I _{OH}	High-level output current					-30	mA
I _{OL}	Low-level output current					30	mA
т		AM26LV31C		0		70	°C
A	Operating free-air temperature	AM26LV31I		-45		85	C

Electrical Characteristics

over recommended operating supply-voltage and free-air temperature ranges (unless otherwise noted)

	PARAMETER	TEST C	ONDITIONS	MIN	TYP ⁽¹⁾	MAX	UNIT
V _{IK}	Input clamp voltage	l _l = 18 mA				-1.5	V
V _{OH}	High-level output voltage	$V_{IH} = 2 V,$	I _{OH} = -12 mA	1.85	2.3		V
V _{OL}	Low-level output voltage	V _{IL} = 0.8 V,	I _{OH} = 12 mA		0.8	1.05	V
V _{OD}	Differential output voltage ⁽²⁾			0.95	1.5		V
V _{OC}	Common-mode output voltage	R ₁ = 100 Ω		1.3	1.55	1.8	V
$\Delta V_{OC} $	Change in magnitude of common-mode output voltage ⁽²⁾					±0.2	V
I _O	Output current with power off	$V_{\rm O} = -0.25$ V or 6 V,	$V_{CC} = 0$			±100	μA
I _{OZ}	Off-state (high-impedance state) output current	$V_{\rm O} = -0.25$ V or 6 V,	$G = 0.8 V \text{ or } \overline{G} = 2 V$			±100	μΑ
I _H	High-level input current	V _{CC} = 0 or 3 V,	V _I = 5.5 V			10	μA
IL.	Low-level input current	V _{CC} = 3.6 V,	V ₁ = 0			-10	μA
I _{OS}	Short-circuit output current	V _{CC} = 3.6 V,	$V_0 = 0$			-200	mA
I _{CC}	Supply current (all drivers)	$V_I = V_{CC}$ or GND,	No load			100	μA
C _{pd}	Power-dissipation capacitance (all drivers) ⁽³⁾	No load			160		pF

(1) All typical values are at $V_{CC} = 3.3 \text{ V}$, $T_A = 25^{\circ}\text{C}$. (2) $\Delta |V_{OD}|$ and $\Delta |V_{OC}|$ are the changes in magnitude of V_{OD} and V_{OC} , respectively, that occur when the input is changed from a high level to a low level.

(3) C_{pd} determines the no-load dynamic current consumption. $I_S = C_{pd} \times V_{CC} \times f + I_{CC}$

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Switching Characteristics

 V_{CC} = 3.3 V, T_A = 25°C

	PARAMETER	TEST CONDITIONS	MIN	TYP ⁽¹⁾	MAX	UNIT
t _{PLH}	Propagation delay time, low- to high-level output	See Figure 2	4	8	12	ns
t _{PHL}	Propagation delay time, high- to low-level output		4	8	12	ns
t _t	Transition time (t _r or t _f)			3		ns
SR	Slew rate, single-ended output voltage	See Note ⁽²⁾ and Figure 2		0.3	1	V/ns
t _{PZH}	Output-enable time to high level	See Figure 3		10	20	ns
t _{PZL}	Output-enable time to low level	See Figure 4		10	20	ns
t _{PHZ}	Output-disable time from high level	See Figure 3		10	20	ns
t _{PLZ}	Output-disable time from low level	See Figure 4		10	20	ns
t _{sk(p)}	Pulse skew	f = 32 MHz, See Note ⁽³⁾		0.5	1.5	ns
t _{sk(o)}	Skew limit	f = 32 MHz			1.5	ns
t _{sk(lim)}	Skew limit (device to device)	f = 32 MHz, See Note ⁽⁴⁾			3	ns

All typical values are at V_{CC} = 3.3 V, T_A = 25°C. Slew rate is defined by: (1)

(2)

$$SR = \frac{90\%(V_{OH} - V_{OL}) - 10\%(V_{OH} - V_{OL})}{t_{\star}}, \text{ the differential slew rate of } V_{OD} \text{ is } 2 \times SR.$$

(3) Pulse skew is defined as the |t_{PLH} - t_{PHL}| of each channel of the same device.
(4) Skew limit (device to device) is the maximum difference in propagation delay times between any two channels of any two devices.

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PARAMETER MEASUREMENT INFORMATION

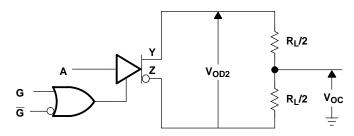
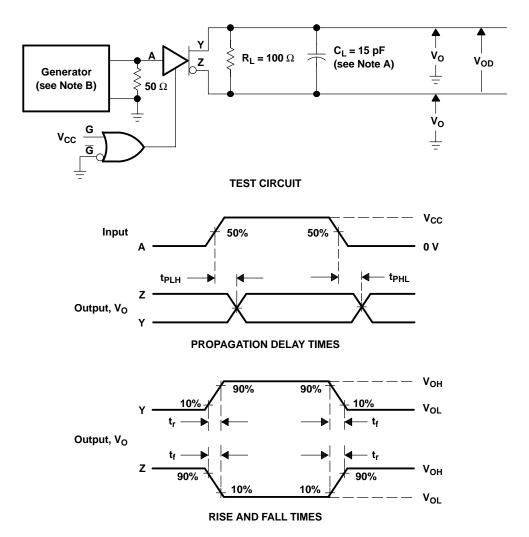


Figure 1. Differential and Common-Mode Output Voltages



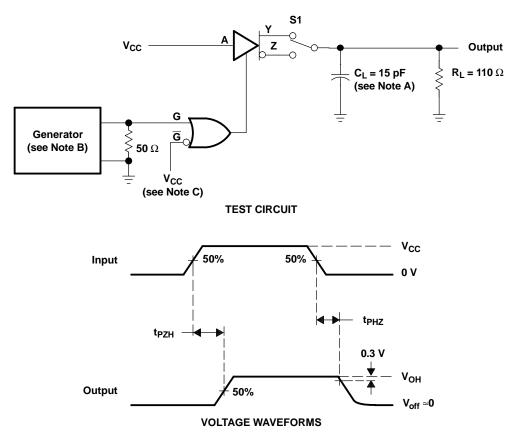
- NOTES: A. C_L includes probe and jig capacitance.
 - B. The input pulse is supplied by a generator having the following characteristics: PRR = 32 MHz, $Z_O \approx 50 \Omega$, 50% duty cycle, t_r and $t_f \le 2$ ns.

Figure 2. Test Circuit and Voltage Waveforms, t_{PHL} and t_{PLH}

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PARAMETER MEASUREMENT INFORMATION

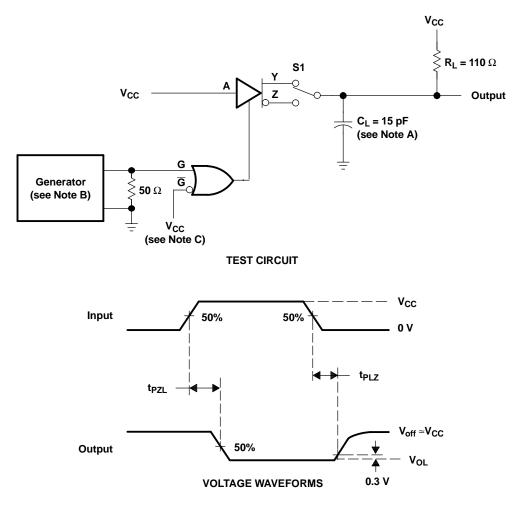


- NOTES: A. C_L includes probe and jig capacitance.
 - B. The input pulse is supplied by a generator having the following characteristics: PRR = 1 MHz, Z_0 = 50 Ω , 50% duty cycle, t_r and t_f (10% to 90%) \leq 2 ns.
 - C. To test the active-low enable \overline{G} , ground G and apply an inverted waveform to \overline{G} .

Figure 3. Test Circuit and Voltage Waveforms, t_{PZH} and t_{PHZ}

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PARAMETER MEASUREMENT INFORMATION



- NOTES: A. C_L includes probe and jig capacitance.
 - B. The input pulse is supplied by a generator having the following characteristics: PRR = 1 MHz, $Z_O = 50 \ \Omega$, 50% duty cycle, t_r and t_f (10% to 90%) \leq 2 ns.
 - C. To test the active-low enable \overline{G} , ground G and apply an inverted waveform to \overline{G} .

Figure 4. Test Circuit and Voltage Waveforms, t_{PZL} and t_{PLZ}

18-Sep-2008

PACKAGING INFORMATION

Orderable Device	Status ⁽¹⁾	Package Type	Package Drawing	Pins	Package Qty	e Eco Plan ⁽²⁾	Lead/Ball Finish	MSL Peak Temp ⁽³⁾
AM26LV31CD	ACTIVE	SOIC	D	16	40	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM
AM26LV31CDE4	ACTIVE	SOIC	D	16	40	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM
AM26LV31CDG4	ACTIVE	SOIC	D	16	40	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM
AM26LV31CDR	ACTIVE	SOIC	D	16	2500	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM
AM26LV31CDRE4	ACTIVE	SOIC	D	16	2500	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM
AM26LV31CDRG4	ACTIVE	SOIC	D	16	2500	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM
AM26LV31CNSLE	OBSOLETE	SO	NS	16		TBD	Call TI	Call TI
AM26LV31CNSR	ACTIVE	SO	NS	16	2000	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM
AM26LV31CNSRE4	ACTIVE	SO	NS	16	2000	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM
AM26LV31CNSRG4	ACTIVE	SO	NS	16	2000	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM
AM26LV31ID	ACTIVE	SOIC	D	16	40	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM
AM26LV31IDE4	ACTIVE	SOIC	D	16	40	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM
AM26LV31IDG4	ACTIVE	SOIC	D	16	40	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM
AM26LV31IDR	ACTIVE	SOIC	D	16	2500	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM
AM26LV31IDRE4	ACTIVE	SOIC	D	16	2500	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM
AM26LV31IDRG4	ACTIVE	SOIC	D	16	2500	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM
AM26LV31INSR	ACTIVE	SO	NS	16	2000	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM
AM26LV31INSRE4	ACTIVE	SO	NS	16	2000	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM
AM26LV31INSRG4	ACTIVE	SO	NS	16	2000	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM

 $^{(1)}$ The marketing status values are defined as follows:

ACTIVE: Product device recommended for new designs.

LIFEBUY: TI has announced that the device will be discontinued, and a lifetime-buy period is in effect.

NRND: Not recommended for new designs. Device is in production to support existing customers, but TI does not recommend using this part in a new design.

PREVIEW: Device has been announced but is not in production. Samples may or may not be available.

OBSOLETE: TI has discontinued the production of the device.

⁽²⁾ Eco Plan - The planned eco-friendly classification: Pb-Free (RoHS), Pb-Free (RoHS Exempt), or Green (RoHS & no Sb/Br) - please check http://www.ti.com/productcontent for the latest availability information and additional product content details.

TBD: The Pb-Free/Green conversion plan has not been defined.

Pb-Free (RoHS): TI's terms "Lead-Free" or "Pb-Free" mean semiconductor products that are compatible with the current RoHS requirements for all 6 substances, including the requirement that lead not exceed 0.1% by weight in homogeneous materials. Where designed to be soldered at high temperatures, TI Pb-Free products are suitable for use in specified lead-free processes.



PACKAGE OPTION ADDENDUM



Pb-Free (RoHS Exempt): This component has a RoHS exemption for either 1) lead-based flip-chip solder bumps used between the die and package, or 2) lead-based die adhesive used between the die and leadframe. The component is otherwise considered Pb-Free (RoHS compatible) as defined above.

Green (RoHS & no Sb/Br): TI defines "Green" to mean Pb-Free (RoHS compatible), and free of Bromine (Br) and Antimony (Sb) based flame retardants (Br or Sb do not exceed 0.1% by weight in homogeneous material)

⁽³⁾ MSL, Peak Temp. -- The Moisture Sensitivity Level rating according to the JEDEC industry standard classifications, and peak solder temperature.

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TAPE AND REEL INFORMATION





QUADRANT ASSIGNMENTS FOR PIN 1 ORIENTATION IN TAPE



All dimensions are nominal Device		Package Drawing		SPQ	Reel Diameter (mm)	Reel Width W1 (mm)	A0 (mm)	B0 (mm)	K0 (mm)	P1 (mm)	W (mm)	Pin1 Quadrant
AM26LV31CDR	SOIC	D	16	2500	330.0	16.4	6.5	10.3	2.1	8.0	16.0	Q1
AM26LV31CNSR	SO	NS	16	2000	330.0	16.4	8.2	10.5	2.5	12.0	16.0	Q1
AM26LV31IDR	SOIC	D	16	2500	330.0	16.4	6.5	10.3	2.1	8.0	16.0	Q1
AM26LV31INSR	SO	NS	16	2000	330.0	16.4	8.2	10.5	2.5	12.0	16.0	Q1



PACKAGE MATERIALS INFORMATION

19-Mar-2008

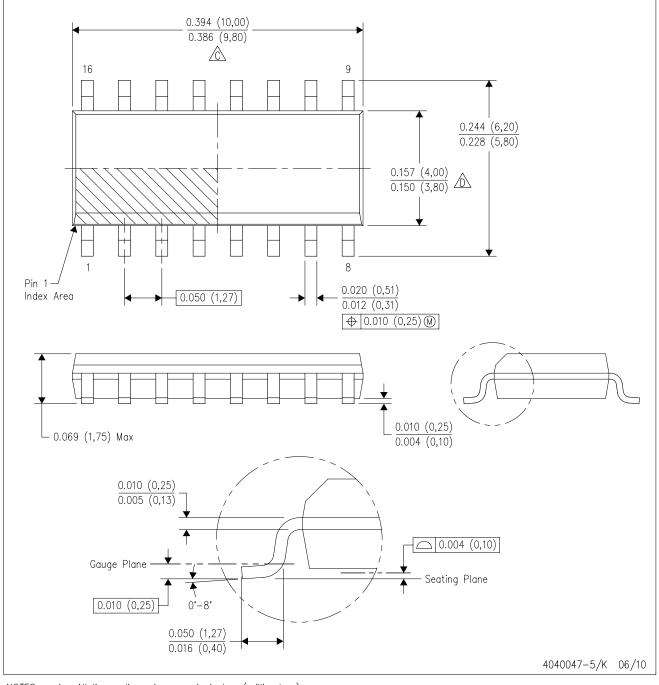


*All dimensions are nominal

Device	Package Type	Package Drawing	Pins	SPQ	Length (mm)	Width (mm)	Height (mm)
AM26LV31CDR	SOIC	D	16	2500	333.2	345.9	28.6
AM26LV31CNSR	SO	NS	16	2000	346.0	346.0	33.0
AM26LV31IDR	SOIC	D	16	2500	333.2	345.9	28.6
AM26LV31INSR	SO	NS	16	2000	346.0	346.0	33.0

D (R-PDSO-G16)

PLASTIC SMALL-OUTLINE PACKAGE



NOTES: A. All linear dimensions are in inches (millimeters).

- B. This drawing is subject to change without notice.
- Body length does not include mold flash, protrusions, or gate burrs. Mold flash, protrusions, or gate burrs shall not exceed .006 (0,15) per end.
- Body width does not include interlead flash. Interlead flash shall not exceed .017 (0,43) per side.
- E. Reference JEDEC MS-012 variation AC.



D(R-PDSO-G16)



NOTES:

- A. All linear dimensions are in millimeters.
- B. This drawing is subject to change without notice.
- C. Refer to IPC7351 for alternate board design.
- D. Laser cutting apertures with trapezoidal walls and also rounding corners will offer better paste release. Customers should contact their board assembly site for stencil design recommendations. Refer to IPC-7525
- E. Customers should contact their board fabrication site for solder mask tolerances between and around signal pads.



MECHANICAL DATA

PLASTIC SMALL-OUTLINE PACKAGE

0,51 0,35 ⊕0,25⊛ 1,27 8 14 0,15 NOM 5,60 8,20 5,00 7,40 \bigcirc Gage Plane ₽ 0,25 7 1 1,05 0,55 0-10 Δ 0,15 0,05 Seating Plane — 2,00 MAX 0,10PINS ** 14 16 20 24 DIM 10,50 10,50 12,90 15,30 A MAX A MIN 9,90 9,90 12,30 14,70 4040062/C 03/03

NOTES: A. All linear dimensions are in millimeters.

NS (R-PDSO-G**)

14-PINS SHOWN

- B. This drawing is subject to change without notice.
- C. Body dimensions do not include mold flash or protrusion, not to exceed 0,15.



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- Подбор оптимального решения, техническое обоснование при выборе компонента;
- Подбор аналогов;
- Консультации по применению компонента;
- Поставка образцов и прототипов;
- Техническая поддержка проекта;
- Защита от снятия компонента с производства.



Как с нами связаться

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