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Intel Platform Memory Operations

DDR4 RDIMM System-Level Validation Results on Intel® Xeon® E7-8800/4800 v4 Processor Family

Listed below are the results from a small sample of DDR4 RDIMMs tested on Intel® Xeon® E7-8800/4800 v4 processor family.

We are providing this information as a guide to module compatibility with Intel server reference platforms.

This testing is not intended to replace the normal OEM qualification process. For results on Intel® motherboards or OEM specific production motherboards, please refer to the OEM's list of qualified memory suppliers. All parts are recommended to be run, using latest Intel® platform Reference Code Production Version.

Updated /August 10th, 2016

RDIMM SR/DR DDR4- 1:1 Mode

1866 MT/s 1.2V 1DIMM and 2DIMM per channel; 3 slots or 2 slots per channel; 4 channels

RDIMM SR: 1600 MT/s 1.2V 3DIMMs per channel; 3 slots per channel; 4 channels

RDIMM DR: 1333 MT/s 1.2V 3DIMMs per channel; 3 slots per channel; 4 channels

DIMM					DRAM					Register		
Supplier	Part Number	Size	CL	Raw Card	Supplier	Part Number	Density Die	Width	Date Code	Vendor	Revision	Note
Micron	MTA18ASF1G72PZ-2G3B1	8GB	17	C1	Micron	MT40A1G4RH-075E:B	4Gb	x4	1618	Montage	A0	
Micron	MTA18ASF1G72PZ-2G3B1	8GB	17	C1	Micron	MT40A1G4RH-075E:B	4Gb	x4	1618	IDT	C0	
Micron	MTA18ASF1G72PZ-2G3B1	8GB	17	C1	Micron	MT40A1G4RH-075E:B	4Gb	x4	1618	Inphi	C0	
Micron	MTA18ASF1G72PZ-2G3A3	8GB	17	C1	Micron	MT40A1G4HX-083E:A	4Gb	x4	1534	IDT	C0	
Micron	MTA18ASF1G72PZ-2G3A3	8GB	17	C1	Micron	MT40A1G4HX-083E:A	4Gb	x4	1534	Montage	C0	
Micron	MTA36ASF2G72PZ-2G3A3	16GB	17	B1	Micron	MT40A1G4HX-083E:A	4Gb	x4	1552	IDT	C0	
Micron	MTA36ASF2G72PZ-2G3A3	16GB	17	B1	Micron	MT40A1G4HX-083E:A	4Gb	x4	1552	Montage	C0	
Micron	MTA36ASF2G72PZ-2G3B1	16GB	17	B1	Micron	MT40A1G4RH-075E:B	4Gb	x4	1618	IDT	C0	
Micron	MTA36ASF2G72PZ-2G3B1	16GB	17	B1	Micron	MT40A1G4RH-075E:B	4Gb	x4	1618	Inphi	C0	
Micron	MTA36ASF2G72PZ-2G3B1	16GB	17	B1	Micron	MT40A1G4RH-075E:B	4Gb	x4	1618	Montage	A0	
Micron	MTA36ASF4G72PZ-2G3A1	32GB	17	B1	Micron	MT40A2G4PM-083E:A	8Gb	x4	1512	IDT	C0	
Micron	MTA36ASF4G72PZ-2G3A1	32GB	17	B1	Micron	MT40A2G4PM-083E:A	8Gb	x4	1512	Montage	C0	
Micron	MTA36ASF4G72PZ-2G3B1	32GB	17	B1	Micron	MT40A2G4WE-083E:B	8Gb	x4	1552	Montage	C0	
Micron	MTA36ASF4G72PZ-2G3B1	32GB	17	B1	Micron	MT40A2G4WE-083E:B	8Gb	x4	1552	IDT	C0	
Micron	MTA36ASF4G72PZ-2G3B1	32GB	17	B1	Micron	MT40A2G4WE-083E:B	8Gb	x4	1552	Inphi	C0	
Samsung	M393A5143DB0-CRC	4GB	17	D0	Samsung	K4A4G085WD-BCRC	4Gb	x8	1545	IDT	C0	
Samsung	M393A5143DB0-CRC	4GB	17	D0	Samsung	K4A4G085WD-BCRC	4Gb	x8	1545	Montage	C0	
Samsung	M393A1K43BB0-CRC	8GB	17	D	Samsung	K4A8G085WB-BCRC	8Gb	x8	1547	IDT	C0	
Samsung	M393A1K43BB0-CRC	8GB	17	D	Samsung	K4A8G085WB-BCRC	8Gb	x8	1547	Montage	C0	

Intel Platform Memory Operations

RDIMM SR/DR DDR4- 1:1 Mode												
1866 MT/s 1.2V 1DIMM and 2DIMM per channel; 3 slots or 2 slots per channel; 4 channels												
RDIMM SR: 1600 MT/s 1.2V 3DIMMs per channel; 3 slots per channel; 4 channels												
RDIMM DR: 1333 MT/s 1.2V 3DIMMs per channel; 3 slots per channel; 4 channels												
DIMM					DRAM					Register		
Supplier	Part Number	Size	CL	Raw Card	Supplier	Part Number	Density Die	Width	Date Code	Vendor	Revision	Note
Samsung	M393A1G43DB1-CRC	8GB	17	E1	Samsung	K4A4G085WD-BCRC	4Gb	x8	1545	IDT	C0	
Samsung	M393A1G43DB1-CRC	8GB	17	E1	Samsung	K4A4G085WD-BCRC	4Gb	x8	1545	Montage	C0	
Samsung	M393A1G40EB1-CRC	8GB	17	C1	Samsung	K4A4G045WE-BCRC	4Gb	x4	1610	IDT	C0	
Samsung	M393A1G40EB1-CRC	8GB	17	C1	Samsung	K4A4G045WE-BCRC	4Gb	x4	1610	Montage	C0	
Samsung	M393A1G40EB1-CRC	8GB	17	C1	Samsung	K4A4G045WE-BCRC	4Gb	x4	1610	Inphi	B0	
Samsung	M393A1G43EB1-CRC	8GB	17	E1	Samsung	K4A4G085WE-BCRC	4Gb	x8	1610	IDT	C0	
Samsung	M393A1G43EB1-CRC	8GB	17	E1	Samsung	K4A4G085WE-BCRC	4Gb	x8	1610	Montage	C0	
Samsung	M393A1G43EB1-CRC	8GB	17	E1	Samsung	K4A4G085WE-BCRC	4Gb	x8	1610	Inphi	B0	
Samsung	M393A1G40DB1-CRC	8GB	17	C1	Samsung	K4A4G045WD-BCRC	4Gb	x4	1546	IDT	C0	
Samsung	M393A1G40DB1-CRC	8GB	17	C1	Samsung	K4A4G045WD-BCRC	4Gb	x4	1546	Montage	C0	
Samsung	M393A2G40DB1-CRC	16GB	17	A1	Samsung	K4A4G045WD-BCRC	4Gb	x4	1546	IDT	C0	
Samsung	M393A2G40DB1-CRC	16GB	17	A1	Samsung	K4A4G045WD-BCRC	4Gb	x4	1546	Montage	C0	
Samsung	M393A2G40EB1-CRC	16GB	17	A1	Samsung	K4A4G045WE-BCRC	4Gb	x4	1610	IDT	C0	
Samsung	M393A2G40EB1-CRC	16GB	17	A1	Samsung	K4A4G045WE-BCRC	4Gb	x4	1610	Inphi	B0	
Samsung	M393A2G40EB1-CRC	16GB	17	A1	Samsung	K4A4G045WE-BCRC	4Gb	x4	1610	Montage	C0	
Samsung	M393A2K43BB1-CRC	16GB	17	E1	Samsung	K4A8G085WB-BCRC	8Gb	x8	1547	IDT	C0	
Samsung	M393A2K43BB1-CRC	16GB	17	E1	Samsung	K4A8G085WB-BCRC	8Gb	x8	1547	Inphi	B0	
Samsung	M393A2K43BB1-CRC	16GB	17	E1	Samsung	K4A8G085WB-BCRC	8Gb	x8	1547	Montage	C0	
Samsung	M393A2K40BB1-CRC	16GB	17	C1	Samsung	K4A8G045WB-BCRC	8Gb	x4	1549	IDT	C0	
Samsung	M393A2K40BB1-CRC	16GB	17	C1	Samsung	K4A8G045WB-BCRC	8Gb	x4	1549	Inphi	B0	
Samsung	M393A2K40BB1-CRC	16GB	17	C1	Samsung	K4A8G045WB-BCRC	8Gb	x4	1549	Montage	C0	
Samsung	M393A4K40BB1-CRC	32GB	17	A1	Samsung	K4A8G045WB-BCRC	8Gb	x4	1551	IDT	C0	
Samsung	M393A4K40BB1-CRC	32GB	17	A1	Samsung	K4A8G045WB-BCRC	8Gb	x4	1551	Inphi	B0	
Samsung	M393A4K40BB1-CRC	32GB	17	A1	Samsung	K4A8G045WB-BCRC	8Gb	x4	1551	Montage	C0	

Intel Platform Memory Operations

RDIMM SR/DR DDR4- 1:1 Mode												
1866 MT/s 1.2V 1DIMM and 2DIMM per channel; 3 slots or 2 slots per channel; 4 channels												
RDIMM SR: 1600 MT/s 1.2V 3DIMMs per channel; 3 slots per channel; 4 channels												
RDIMM DR: 1333 MT/s 1.2V 3DIMMs per channel; 3 slots per channel; 4 channels												
DIMM					DRAM					Register		
Supplier	Part Number	Size	CL	Raw Card	Supplier	Part Number	Density Die	Width	Date Code	Vendor	Revision	Note
SK hynix	HMA451R7AFR8N-UHTD	4GB	17	D	SK hynix	H5AN4G8NAFR-UHC	4Gb	x8	1602	IDT	C0	
SK hynix	HMA451R7AFR8N-UHT2	4GB	17	D	SK hynix	H5AN4G8NAFR-UHC	4Gb	x8	1602	Montage	C0	
SK hynix	HMA41GR7AFR4N-UHTD	8GB	17	C1	SK hynix	H5AN4G4NAFR-UHC	4Gb	x4	1547	IDT	C0	
SK hynix	HMA41GR7AFR4N-UHT2	8GB	17	C1	SK hynix	H5AN4G4NAFR-UHC	4Gb	x4	1549	Montage	C0	
SK hynix	HMA42GR7AFR4N-UHTD	16GB	17	B1	SK hynix	H5AN4G4NAFR-UHC	4Gb	x4	1547	IDT	C0	
SK hynix	HMA42GR7AFR4N-UHT2	16GB	17	B1	SK hynix	H5AN4G4NAFR-UHC	4Gb	x4	1547	Montage	C0	
SK hynix	HMA41GR7AFR8N-UHTD	8GB	17	E1	SK hynix	H5AN4G8NAFR-UHC	4Gb	x8	1602	IDT	C0	
SK hynix	HMA41GR7AFR8N-UHT2	8GB	17	E1	SK hynix	H5AN4G8NAFR-UHC	4Gb	x8	1602	Montage	C0	
SK hynix	HMA81GR7MFR8N-UHTD	8GB	17	D	SK hynix	H5AN8G8NMFR-UHC	8Gb	x8	1602	IDT	C0	
SK hynix	HMA81GR7MFR8N-UHT2	8GB	17	D	SK hynix	H5AN8G8NMFR-UHC	8Gb	x8	1602	Montage	C0	
SK hynix	HMA82GR7MFR4N-UHTD	16GB	17	C1	SK hynix	H5AN8G4NMFR-UHC	8Gb	x4	1602	IDT	C0	
SK hynix	HMA82GR7MFR4N-UHT2	16GB	17	C1	SK hynix	H5AN8G4NMFR-UHC	8Gb	x4	1602	Montage	C0	
SK hynix	HMA82GR7MFR8N-UHTD	16GB	17	E1	SK hynix	H5AN8G8NMFR-UHC	8Gb	x8	1602	IDT	C0	
SK hynix	HMA82GR7MFR8N-UHT2	16GB	17	E1	SK hynix	H5AN8G8NMFR-UHC	8Gb	x8	1602	Montage	C0	
SK hynix	HMA84GR7MFR4N-UHTD	32GB	17	B1	SK hynix	H5AN8G4NMFR-UHC	8Gb	x4	1548	IDT	C0	
SK hynix	HMA84GR7MFR4N-UHT2	32GB	17	B1	SK hynix	H5AN8G4NMFR-UHC	8Gb	x4	1546	Montage	C0	

RDIMM SR/DR DDR4- 2:1 Mode												
1600 MT/s 1.2V 1DIIMM and 2DIMM per channel; 3 slot or 2 slot per channel; 4 Channels												
RDIMM SR: 1600 MT/s 1.2V 3DIMMs per channel; 3 slots per channel; 4 channels												
RDIMM DR: 1333 MT/s 1.2V 3DIMMs per channel; 3 slots per channel; 4 channels												
DIMM					DRAM					Register		
Supplier	Part Number	Size	CL	Raw Card	Supplier	Part Number	Density Die	Width	Date Code	Vendor	Revision	Note
Micron	MTA18ASF1G72PZ-2G3B1	8GB	17	C1	Micron	MT40A1G4RH-075E:B	4Gb	x4	1618	Montage	A0	
Micron	MTA18ASF1G72PZ-2G3A3	8GB	17	C1	Micron	MT40A1G4HX-083E:A	4Gb	x4	1534	IDT	C0	

Intel Platform Memory Operations

RDIMM SR/DR DDR4- 2:1 Mode
1600 MT/s 1.2V 1DIMM and 2DIMM per channel; 3 slot or 2 slot per channel; 4 Channels
RDIMM SR: 1600 MT/s 1.2V 3DIMMs per channel; 3 slots per channel; 4 channels
RDIMM DR: 1333 MT/s 1.2V 3DIMMs per channel; 3 slots per channel; 4 channels

DIMM					DRAM					Register		
Supplier	Part Number	Size	CL	Raw Card	Supplier	Part Number	Density Die	Width	Date Code	Vendor	Revision	Note
Micron	MTA18ASF1G72PZ-2G3A3	8GB	17	C1	Micron	MT40A1G4HX-083E:A	4Gb	x4	1534	Montage	C0	
Micron	MTA18ASF1G72PZ-2G3B1	8GB	17	C1	Micron	MT40A1G4RH-075E:B	4Gb	x4	1618	IDT	C0	
Micron	MTA18ASF1G72PZ-2G3B1	8GB	17	C1	Micron	MT40A1G4RH-075E:B	4Gb	x4	1618	Inphi	C0	
Micron	MTA36ASF2G72PZ-2G3A3	16GB	17	B1	Micron	MT40A1G4HX-083E:A	4Gb	x4	1552	IDT	C0	
Micron	MTA36ASF2G72PZ-2G3A3	16GB	17	B1	Micron	MT40A1G4HX-083E:A	4Gb	x4	1552	Montage	C0	
Micron	MTA36ASF2G72PZ-2G3B1	16GB	17	B1	Micron	MT40A1G4RH-075E:B	4Gb	x4	1618	IDT	C0	
Micron	MTA36ASF2G72PZ-2G3B1	16GB	17	B1	Micron	MT40A1G4RH-075E:B	4Gb	x4	1618	Inphi	C0	
Micron	MTA36ASF2G72PZ-2G3B1	16GB	17	B1	Micron	MT40A1G4RH-075E:B	4Gb	x4	1618	Montage	A0	
Micron	MTA36ASF4G72PZ-2G3A1	32GB	17	B1	Micron	MT40A2G4PM-083E:A	8Gb	x4	1512	IDT	C0	
Micron	MTA36ASF4G72PZ-2G3A1	32GB	17	B1	Micron	MT40A2G4PM-083E:A	8Gb	x4	1512	Montage	C0	
Micron	MTA36ASF4G72PZ-2G3B1	32GB	17	B1	Micron	MT40A2G4WE-083E:B	8Gb	x4	1552	Montage	C0	
Micron	MTA36ASF4G72PZ-2G3B1	32GB	17	B1	Micron	MT40A2G4WE-083E:B	8Gb	x4	1552	IDT	C0	
Micron	MTA36ASF4G72PZ-2G3B1	32GB	17	B1	Micron	MT40A2G4WE-083E:B	8Gb	x4	1552	Inphi	C0	
Samsung	M393A5143DB0-CRC	4GB	17	D0	Samsung	K4A4G085WD-BCRC	4Gb	x8	1545	IDT	C0	
Samsung	M393A5143DB0-CRC	4GB	17	D0	Samsung	K4A4G085WD-BCRC	4Gb	x8	1545	Montage	C0	
Samsung	M393A1K43BB0-CRC	8GB	17	D	Samsung	K4A8G085WB-BCRC	8Gb	x8	1547	IDT	C0	
Samsung	M393A1K43BB0-CRC	8GB	17	D	Samsung	K4A8G085WB-BCRC	8Gb	x8	1547	Montage	C0	
Samsung	M393A1G43DB1-CRC	8GB	17	E1	Samsung	K4A4G085WD-BCRC	4Gb	x8	1545	IDT	C0	
Samsung	M393A1G43DB1-CRC	8GB	17	E1	Samsung	K4A4G085WD-BCRC	4Gb	x8	1545	Montage	C0	
Samsung	M393A1G40EB1-CRC	8GB	17	C1	Samsung	K4A4G045WE-BCRC	4Gb	x4	1610	IDT	C0	
Samsung	M393A1G40EB1-CRC	8GB	17	C1	Samsung	K4A4G045WE-BCRC	4Gb	x4	1610	Montage	C0	
Samsung	M393A1G40EB1-CRC	8GB	17	C1	Samsung	K4A4G045WE-BCRC	4Gb	x4	1610	Inphi	B0	
Samsung	M393A1G43EB1-CRC	8GB	17	E1	Samsung	K4A4G085WE-BCRC	4Gb	x8	1610	IDT	C0	
Samsung	M393A1G43EB1-CRC	8GB	17	E1	Samsung	K4A4G085WE-BCRC	4Gb	x8	1610	Montage	C0	
Samsung	M393A1G43EB1-CRC	8GB	17	E1	Samsung	K4A4G085WE-BCRC	4Gb	x8	1610	Inphi	B0	
Samsung	M393A1G40DB1-CRC	8GB	17	C1	Samsung	K4A4G045WD-BCRC	4Gb	x4	1546	IDT	C0	
Samsung	M393A1G40DB1-CRC	8GB	17	C1	Samsung	K4A4G045WD-BCRC	4Gb	x4	1546	Montage	C0	
Samsung	M393A2G40DB1-CRC	16GB	17	A1	Samsung	K4A4G045WD-BCRC	4Gb	x4	1546	IDT	C0	

Intel Platform Memory Operations

RDIMM SR/DR DDR4- 2:1 Mode												
1600 MT/s 1.2V 1DIMM and 2DIMM per channel; 3 slot or 2 slot per channel; 4 Channels												
RDIMM SR: 1600 MT/s 1.2V 3DIMMs per channel; 3 slots per channel; 4 channels												
RDIMM DR: 1333 MT/s 1.2V 3DIMMs per channel; 3 slots per channel; 4 channels												
DIMM					DRAM					Register		
Supplier	Part Number	Size	CL	Raw Card	Supplier	Part Number	Density Die	Width	Date Code	Vendor	Revision	Note
Samsung	M393A2G40DB1-CRC	16GB	17	A1	Samsung	K4A4G045WD-BCRC	4Gb	x4	1546	Montage	C0	
Samsung	M393A2G40EB1-CRC	16GB	17	A1	Samsung	K4A4G045WE-BCRC	4Gb	x4	1610	IDT	C0	
Samsung	M393A2G40EB1-CRC	16GB	17	A1	Samsung	K4A4G045WE-BCRC	4Gb	x4	1610	Inphi	B0	
Samsung	M393A2G40EB1-CRC	16GB	17	A1	Samsung	K4A4G045WE-BCRC	4Gb	x4	1610	Montage	C0	
Samsung	M393A2K43BB1-CRC	16GB	17	E1	Samsung	K4A8G085WB-BCRC	8Gb	x8	1547	IDT	C0	
Samsung	M393A2K43BB1-CRC	16GB	17	E1	Samsung	K4A8G085WB-BCRC	8Gb	x8	1547	Inphi	B0	
Samsung	M393A2K43BB1-CRC	16GB	17	E1	Samsung	K4A8G085WB-BCRC	8Gb	x8	1547	Montage	C0	
Samsung	M393A2K40BB1-CRC	16GB	17	C1	Samsung	K4A8G045WB-BCRC	8Gb	x4	1549	IDT	C0	
Samsung	M393A2K40BB1-CRC	16GB	17	C1	Samsung	K4A8G045WB-BCRC	8Gb	x4	1549	Inphi	B0	
Samsung	M393A2K40BB1-CRC	16GB	17	C1	Samsung	K4A8G045WB-BCRC	8Gb	x4	1549	Montage	C0	
Samsung	M393A4K40BB1-CRC	32GB	17	A1	Samsung	K4A8G045WB-BCRC	8Gb	x4	1551	IDT	C0	
Samsung	M393A4K40BB1-CRC	32GB	17	A1	Samsung	K4A8G045WB-BCRC	8Gb	x4	1551	Inphi	B0	
Samsung	M393A4K40BB1-CRC	32GB	17	A1	Samsung	K4A8G045WB-BCRC	8Gb	x4	1551	Montage	C0	
SK hynix	HMA451R7AFR8N-UHTD	4GB	17	D	SK hynix	H5AN4G8NAFR-UHC	4Gb	x8	1602	IDT	C0	
SK hynix	HMA451R7AFR8N-UHT2	4GB	17	D	SK hynix	H5AN4G8NAFR-UHC	4Gb	x8	1602	Montage	C0	
SK hynix	HMA41GR7AFR4N-UHTD	8GB	17	C1	SK hynix	H5AN4G4NAFR-UHC	4Gb	x4	1547	IDT	C0	
SK hynix	HMA41GR7AFR4N-UHT2	8GB	17	C1	SK hynix	H5AN4G4NAFR-UHC	4Gb	x4	1549	Montage	C0	
SK hynix	HMA42GR7AFR4N-UHTD	16GB	17	B1	SK hynix	H5AN4G4NAFR-UHC	4Gb	x4	1547	IDT	C0	
SK hynix	HMA42GR7AFR4N-UHT2	16GB	17	B1	SK hynix	H5AN4G4NAFR-UHC	4Gb	x4	1547	Montage	C0	
SK hynix	HMA41GR7AFR8N-UHTD	8GB	17	E1	SK hynix	H5AN4G8NAFR-UHC	4Gb	x8	1602	IDT	C0	
SK hynix	HMA41GR7AFR8N-UHT2	8GB	17	E1	SK hynix	H5AN4G8NAFR-UHC	4Gb	x8	1602	Montage	C0	
SK hynix	HMA81GR7MFR8N-UHTD	8GB	17	D	SK hynix	H5AN8G8NMFR-UHC	8Gb	x8	1602	IDT	C0	
SK hynix	HMA81GR7MFR8N-UHT2	8GB	17	D	SK hynix	H5AN8G8NMFR-UHC	8Gb	x8	1602	Montage	C0	
SK hynix	HMA82GR7MFR4N-UHTD	16GB	17	C1	SK hynix	H5AN8G4NMFR-UHC	8Gb	x4	1602	IDT	C0	
SK hynix	HMA82GR7MFR4N-UHT2	16GB	17	C1	SK hynix	H5AN8G4NMFR-UHC	8Gb	x4	1602	Montage	C0	
SK hynix	HMA82GR7MFR8N-UHTD	16GB	17	E1	SK hynix	H5AN8G8NMFR-UHC	8Gb	x8	1602	IDT	C0	
SK hynix	HMA82GR7MFR8N-UHT2	16GB	17	E1	SK hynix	H5AN8G8NMFR-UHC	8Gb	x8	1602	Montage	C0	
SK hynix	HMA84GR7MFR4N-UHTD	32GB	17	B1	SK hynix	H5AN8G4NMFR-UHC	8Gb	x4	1548	IDT	C0	

Intel Platform Memory Operations

RDIMM SR/DR DDR4- 2:1 Mode 1600 MT/s 1.2V 1DIIMM and 2DIMM per channel; 3 slot or 2 slot per channel; 4 Channels RDIMM SR: 1600 MT/s 1.2V 3DIMMs per channel; 3 slots per channel; 4 channels RDIMM DR: 1333 MT/s 1.2V 3DIMMs per channel; 3 slots per channel; 4 channels												
DIMM					DRAM					Register		
Supplier	Part Number	Size	CL	Raw Card	Supplier	Part Number	Density Die	Width	Date Code	Vendor	Revision	Note
SK hynix	HMA84GR7MFR4N-UHT2	32GB	17	B1	SK hynix	H5AN8G4NMFR-UHC	8Gb	x4	1546	Montage	C0	

