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QUERY
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S S M D V T I L L S H C E L S T E L A V T V T I V V T S E L V M P F T V G T W L R
S R N S V T G I T H M E Y N Q P L V S V K A T P T V T V D N C M P Y T V G T W L R
T A G G V T I L T H S E L S T E L S V T N A I V I T S E L V M P Y T M G T W L R
N R G D S T I V R N T E L N N Q I L A A L G A F N T T N S A L I J A A F P S W L A
M S T I V V N T E L V A N I T A A G A F S F T A Q P L I P S A F G S W L A
N S M D S V R L A S K S L E V K V G I E Y Q V S V V P L V P C I Q H T W L R
N N K G D I R V C G R E V V T E I S V S N T P T P S V L Q V I P E T F P T R L K
R G N S T V V S N S E L I L N L T P I A L A Y T V Q S L P L I A T Q P A W L G
T T N E Q T V V R N T E I I S A I X S A A A F S A T T V T V I P S N L S W L A
N G R S G V T V R H S E V V L V V S G T T N F S A T S V T L A P S N T F T W L A
S K G S V T I A H R E L L G Q F N N S S G L V V N G G V I N P S N V F P W L Q
S K G A V T I S H R E L V G Q F N S S S G L V V N G G I I N P A N L F F P W L Q
T A G S V T V T H R E Y V R Q V N N T S A F T V N G G I V N P A G T L F T W L P
N S R E G V V V S N T E R F S I L T T A V G V A T F S R I I T P S N V L W L N
G S V T V T H R E Y L T Q V N N T T A F A V N G G I V N P A G T L F F A W L P
G V L R L R H H E I L T I V S T T D K Y T V R S V N L V P A N T F S W L S
S D R K G I Q V C N T E F I R S F D L N A G F T V G S L P C T P G T M P W L S
T S G S V T V S H R E L I T Q V N N S T Q F V V N G G V V N P G T L F S W L P
S K G S V T V S H R E Y V S Q V Q N G N A T G F F R L Y R I N P S A V T F W L V
S K G S V T V T H R E L I S Q I D T S A A L S V N K G V V N P S N L F P W L Q
S V K G Q V R V T H R E Y V T Q V N S S G L F Q L N G G L V N P N N A F P W L
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S T K G V V T I T H R E F L S T V N Q A N N G V S P G Y Y R I N P S N V F P W L V
T A G K S V T V V H C E F V G N V Q T G S G L L V V E R T I N P S N V F P W L S
S T T I G T R V T N T E L L A G I N V A A A G A F S V V G A G P S N L G W L N
G S I H I T H R E L V T S I L P S S D L L V N N G V I N P G N L F T W L P
S E G T R T R V C H T E L I R A V D I N T I F T L N F T W C I P S A F P W L S
G S I T V T H R E Y L T Q V V T T A D L Q V N G G I V N P L N L F S W L P
T A G S V K I V H R E L I T T V L P A D S L T V N N G D V N P S N L F T W L Q
N A K R S M T V T F S E M I G V V K G S S E F Q A Q S W V I N P S D V F P Q L S
T A K G S V R I T H R E Y V S V L S G T N G E F L R N N S I N P L N L F P W L V
N R D S V N L L S H T E L F V G V D S G A A F V L N G A I P S Q M T N C N R
S R S N N I T V S H C E L V A N V T N T T G V L Q I N N A I N P A Q L F A W L S
A G G G F R V T H R E L I A T I S N T V L F Q V N G G V L N P A N L F T W L P
T K G K V H I V H R E L V T S V I N L V G F R V N N N V I N P S N L F T W L P
T A R D G I T R S G S E L I T T L K K N T E P K Y T T A V L N P S E P G T F N Q
S E G S V K I V H R E F I A S V L P A N D L T V N N G D V N P S N L F T W L Q
A G K S M T I T K C E Y L S D I V S H V G P L T D H W V V N P G T I K T F P Q
S K G S V R I T H R E Y I S V I E G N T N F V V N N G S I N P L N V F P W L V
E F L M D F K S A T S A D A V T I N C V P F N L P V W
A G K S M T M S K T E L L C T V K G T T G V I P S F W V V S P R N V F P Q L S
S R N S N T V V T H R E Y L T D V S N S S G V F V N N F R I N P S N V F N W L S
G G A I T V E E V E H L V G A F T T T A A G Q T R A Y L C M P S S L F I R L S
G D A V V I S H S E M L G A I S N V I T A F R C T G Y R A N P S T I F P W L S
V L T H T E L I T T L K K N T S L E P V E A I V N P S R V G T F L P
A G K S S T L T R S E F I C N V S S T T G V T P T S W I N P P R E V K S F P S
S V V V R H T Q L V L S V V G S I A L R A N N G R L N P S N L F P T I A
N L R T D T P V V T S T E F A D V L L H T G A N I R S W V V N P R S L F P R L S
T I T R S E Y V A D V V K T V G A T P T T W V I N P R S V R S F P S
N A A D S T T I T K S D F V A D V I G N T T G T V T S W L I N P S N V F P S L L
T A G T T D S Q V F I V S P A A L D R V G
A G K S T N I S K A E F I S T V T G S T G P T F S S W R I N P S D V G S F I S
P I Q A G I S M A P S A Q G A M V R T V G T W L R
K G Q I K V S G R Q L F M S L I T S S S F V V N N G L N P S N L F P S L A
G S V R I V H R E Y V S D V G S A V A F Q N T T Y P L N P G S T F L F L S
R I V S H Q E I L Q V T A S T T D S V Q V V P I I P R L S L P H L R S
V S H R E Y V G D I A P A A F T V Q S F P L N P G Q T F P W L S
R G G L S R T H D E Y I G E V T V A N N F N V E V Y P V N I G Q T F P W G S
V I Q H V E L W G T L M S N T T E S P I T R T L N P S A T F N W V Q
N S G S L V R V T S S T A G T E V S G T V L F N V R N A T E L P W L S
V T V R H K E Y L G E I K G S I V F T V S T F T I N P S Q T F P W L S
V R H R E F V M E V R S A I N F S V R T F P L N P S Q S F P W L A
L S H E E I L Q V N S S T A A T I Q T I P I I P R S V F P H L R
V I Q H T E L W G T L M S N S T I A P R T L N P S D P A T F N W V Q
N A K M G T I T K Q E Y M G E L H S S K I E T Y L L D P K N V F P Q L S
N A Q K S M T I T K Q E F L G T I F S S D S I T T Y P I D P R N V F P Q L S
N A M K S M T I T K Q E Y L G T I S A G G G V K T F I L D P R N V F P Q L S

R R G R Q V N T Q P E I I L R I T A K T T D N Y T T V P I I P A L L F Q Y M A
T H A T A N T E V I G F V N I D V R N S T Q L N R L S
T A G K T S T C T G S E L L L T L P K Q T G Y T P K S W I L N P G Q Y S P F R R
N A Q K S M T I V K S E F L G E V S A D G A I H T Y T L D P R N V F P H I S
N A N T S M T I T K Q E F L G T L F S G D E I S T Y I L D P R N V K T F I S
T W I P
N A Q K S M T V F K S E F L G E L H A D N T I R S Y K L D P R N V F P H I S

G T T C S M S E I L L A V S A T T A D Q I L E I P V C A G I D F P W L A
N A N T S M T I T K Q E F L G T L F S G D E I S T X X X X P R N V K T F I S
G A V A I S S T L P G Q V L A T V S L N P R A W T G T R L S
G S I R I R R T E F L L Q V K H A D E K N S S E G T V V P A S F A W L K
I T A T G R D M V G A V S V S G A V L A T I S L N P R A Q G T R L S
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G T R I T

QUERY	50	60	70	80
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UniRef90_P22959	S I A D L Y S K Y R W L S C E I I Y I P K C P T T T T S G S I A M A F T Y D R N D			
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UniRef90_Q5NDM8	G V A C Y W S K Y R W R S C R L V Y I L P Y C P S S T T F T G S V V M A M G L S Y D Y A D			
UniRef90_S4Z705	G L A T S W S K F K W R A I K F V Y Y M P I C P T T T T E T S V V H F G F L Y D T V D			
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UniRef90_V9ZBF0	G L S D L Y S K Y R W R K L R F I Y I T P A C P T T T T Q G N V S M S L S Y D R I D			
UniRef90_E2IZN3	V Q G S L Y S K W R W L S L R A T Y V P E T A S T T T P G T V A M G F Q Y D N T D			
UniRef90_Q9QBU3	G I A A S F D Q Y K F D R V L Q L Q Y Y V P M C A T T T E T G R V A I Y F D K D S Q D			
UniRef90_Q64IS3	T L A S N F D Q Y V F N N L R L Q Y Y V P M C S A T T T E T G R V A I Y F D K D S Q D			
UniRef90_D2CM02	S I A S N F D Q Y S F N N I T L H Y Y V P I C S A T T T E V G R V G L Y F D K D S Q D			
UniRef90_Q9C350	G V A I N Y S K Y R W L S T Q M Y Y I P I V P T T T T Q T G L M A M G F V Y D V N D			
UniRef90_B6CG48	A I A S N F D Q Y T F N N V V L H Y Y V P L C A T T T E V G R V A M Y F D K D S E D			
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UniRef90_L0MPW1	R M A A S W G R W K W N S L R F T Y I P A A C S S T T Q G T V A M G F L Y D A L D			
UniRef90_B3GE97	S I A A S N F D Q Y T F N N V T L H Y Y V P L C A T T T E T G R V A M Y F D K D S E D			
UniRef90_V5LKQ8	N I A S N F D Q Y R F T R V L Q L H Y Y V P F C A T T T Q V G R F A M F F D K D S E D			
UniRef90_Q64IR9	T L A T N F D Q Y T F E R V R L Q Y Y V P L C C G T T T T T G R V A L Y F D K D S Q D			
UniRef90_Q70P84	S I A S N F D Q Y R F V N L Q L C Y Y V P L C C G T T T E V G R V A L Y F D K D S Q D			
UniRef90_Q64IS1	S I A A N F D Q Y S F N R V A I Q Y Y V P M C C G T T T E V G R V G I Y W D K D S E D			
UniRef90_A5H0X6	A I A S N F D Q Y V F N S V M L H Y Y V P L C C G T N E V G R V A M Y W D K D S E D			
UniRef90_Q80R14	N I A S N F D K Y K F T R L S F H Y Y V P M C A T T T E V G R V G L F F D R D S E D			
UniRef90_Q2ER15	N I A A N F D M Y R F R N V S L R Y I P M C A T T T E V G R V G L F F D R D S E D			
UniRef90_Q27K37	V L A A G Y E K Y R V S L S L R Y I P T C A T T T E V G K V L L A F D K D A A D			
UniRef90_A3R4V2	G I A S N Y S K F R W L A I K L I Y V P I V P T T T T A G A M T M A L S Y D P A D			
UniRef90_L7RFV7	T L G L N F D M Y K F T R I R F H Y Y V P T C A T T T S T G R V A L V W D K D S Q D			
UniRef90_Q8BEQ0	G V A V N W S K W R W S L R F T Y M P A A C S S T T T Q G T V A L G Y L Y D A L D			
UniRef90_Q8BC72	T I A A G Y D Q Y A F N R L S L Q Y Y V P L C A T T T A T G R V A M Y W D K D S T D			
UniRef90_B1B1T2	G Q A Q L Y D M Y R F T K L R F T Y I P T T T N T A T G R V S V I W D K D S Q D			
UniRef90_I3XH1H	V S A A M Y E K Y R F T Q L A F R F A P S C P T T T T G G V V V M H D I D S C D			
UniRef90_P15183	N I A A N F D Q Y K F N S L R F E Y V P L V N T T T T N G R V A L Y F D K D S E D			
UniRef90_Q83106	H A V N F S K Y S W K Y L E F I Y I P F V V T T T F P G Q V V L A P N F D R S D			
UniRef90_D3U5B8	T L A A N F D T Y R F D K L I F R Y Y V P M C A T T T E T G R V V M M W D K D S E D			
UniRef90_O12304	S I A A N F D Q Y R F L K V W L E Y A P T C C T T T E A G R V G L Y F D K D S Q D			
UniRef90_A5YV A6	A L A S N F D Q Y V F R K L T L E Y Y V P T C C G T T T E T G R V G I W F D R D S E D			
UniRef90_A8CZ19	T I A S N F D S Y R F T S I R F V Y Y V P L C A T T T E T G R V S L F W D K D S Q D			
UniRef90_P06663	L I A A Q Y E K Y R F T S L R F R Y S P M S P S T T T G G K V A L A F D R D A A K			
UniRef90_A7LH55	G Q A Q L Y D M Y R F T R L R F T Y I P T T T S T S T G R V S I L W D R D S Q D			
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UniRef90_E7EEK8	V C S L G Y E K Y R V S N F R V R Y S N S L S D D V S G K V S I G F T P D S S D			
UniRef90_F2YSA0	N E S A R W E K Y K I T K F			

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UniRef90_A5H7Q8

90
100
110
120

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V A P G S R V Q L S Q T Y K A I N F P Y A G Y D G A A L L N T D V T P T S
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170
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G Q I G V G T Y G S T G V A A A G D L F I H Y T V T F Y E P Q P S A
G R F G Y A V Y G G N A N T Y G D L F I Q Y T V E L S E P Q P T A
G Q L G F A T Y G G S T T N A C I G D L F I T Y S V T L F A P Q P T S T
G Q L G I S T Y G G T G T N A P V G D V F V S Y S V T L Y F P Q P T
G R F G Y V V Y G G S T N N A Y G D V F V Q Y T V E L R E P Q P S S
G R I G F V T Y G T N T S N F I G D V F I E Y T V E L H E P Q P S S
G K V V V A N Y G Q S E G D V D V I G E L F L Q Y S I T L K I P Q G T A T
S V C N V A T S G G S A A T N V G N L M I K Y S I E L I E P I P A A I N
Q R L F F A T Y S S S G G V P L G D V Y V E F T E A Q P A A S Q V
P A R L A V A A A N G A A D V G G V G T V Y A T Y V V E L I D P I S A L N
G Q L G V A T Y G G T A V V A G D V F V S Y T V T F Y N P Q P T
G Q L I F A T Y S S V S S V P H I G D L Y V E Y T V E F K E P Q P I S
G K L V V A S Y G Q G A S D P D M V G E I F I E Y T C V L I D R Q P A A L
G Q F G W V J A Y S G P T A E L V G D I F V E Y T V D L F E A Q P T S
A T M F V A T Q G G N N V A Q L S E V G K L Y C K Y V I E F F N I D P A S N M
G Q F M F G V Y G G S S T N S I G D I Y V D Y T V T L M E A Q P T A T
G Q I G F A T Y G G G S T N A I G D L F I H Y T I E L Q Q P Q P T
G Q I G F S T Y A G A G T N A V I G D L F A E Y V D L H C P Q P S
F A F A T Y A G G S N N Q I G D I Y V E Y G V E F S E A Q P A
G K L I M A T Y G Q G A N D A A Q L G E V R V E Y T V Q L K N R T G S T

180
G R I V V C T Y G S S A A D P A T L G E L F I E Y T I V F S D P T
G K V G W V T Y S A S Q F A N L G D L F V E Y T V D L Y E A Q P T A A T L
A R L A V R S I K P A V S D T P G K L Y A I V S M V L R D P V D P T L N
G R L V L S T Y G F D K A D T V V G E L F I Q Y T I V L S D P T K T A
G Q L V L A T W G G V D N T V C G E V Y V E Y S V E L R Q P Q P S
A R A V V R S L L P S T E D T P G Q L Y V R Y R I M L R D A V A P G L N
G Q V V V M S D G G T I S A A L P L F D L I V N Y T V E L I E P Q Q A
G K L L A A S Y G G G E G D A N G L G E L H I E Y T V Q L Y N R L G S A
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G Q L L F V N H S G S E G I E T G D V F L E C E V E F K G P Q P T A T
G T T H L C V S G Q Q A N D V V L G D L W C T Y E I E L K K P I
G R I V L C T Y G F D S N A P S I V G E L S I E Y T I T L L N P S V A
G R V V L A T Y G F D Q S A P E V I G E I H F E Y T L V L S D P
G R V N L C A Y G K A A D P S I I G E L F F E Y T I V E S E
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G R V I L S V H G C D S G V I G D L Y F E Y T I R F S D P T
A R I Y D T Y T I Q M I E P T A S A L N
G Q I F T A V H S G S T T D E V G D V Y L D Y T I E L K D R Q P T A S M V
G L F Q L A I A N C P S A N G L P I G E L W V E Y R V T L R K P
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G R F Q L A T H N P A A M A G T L G E L Y V A Y T V C L R K P
G N F Q I A T Q G I L N N V A I G E L H V R Y K C R L S I P I
G K I L V A S Y G Q S T S T A F A L G E I R F A Y T L Q L I V P Q P H S T G V
F Q I T W A A Q S S L V S T T L G R I M A E Y L V E L T D P V D V T I N
L G V T T V A T S G Q Q I D G K V L G D L W V T Y E I D L K K P I V A S
L G L T S I A V S G C Q V D G V T L G D L W V T Y E V E L S K P I
G R L V V G S S K A A V V I Q L G L L R M R Y S A E M R G A T S I S
G K I L V A A Y G Q Q A T T P F A L G E V R F S Y T L Q L L N P Q P H S T M V
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G A L H F M V D G R H S G R L G E L F L Q V T I V L S E P T
G S I H C L I D G D H E G K L G E I F L D L T V V L S E P T
A S L V V A S D G G P A T A T P A G D L F I K Y V I E F I E P I N P T M N V
A T V I A G D G G P V A A T A V G D V F M R Y E I E F I E P I N P T M N V
G R L V I G T T S Q V A S V S L G I Q M V P D V E F S G P V T T
V T I V Y G Y S N S T N I P T G R I D V H Y E V E L V Q P I A P L A N
G R L I V M H Y G A A E S D S A Y L G E V L V D Y T V V F S E P I P T
G S L F V L V D G Q H D G R V G E L F L E V T I V L S Q P T
G S F H I L L V D G K H D G R L G E L F F E L T I V L S E P T
G T L P T A A T G K V V A G T L F A R F E I E L M N P T A P L L
G V I Y V L M D G A H D T R A G E L F L E V T V V L S Q P T
G R V N L C A Y G Q K A A D P S I I G E L F F E Y T I V F S E
G R F I V A I P K A S A T Q A V G Q I K I S Y S V

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G Q I Y S V D S K D K G L Y C G D V F I H Y D I T L S G
G T I C I Y A Q H D S A N S K V L G E V W V T Y R V R L A G T Q A A
G R F Y V I V D S T S Q T C P V T V D L E W T V E L R E A T
G S L F L V N F S I P Q I N P T S L T D V R V D K A V N F I K P

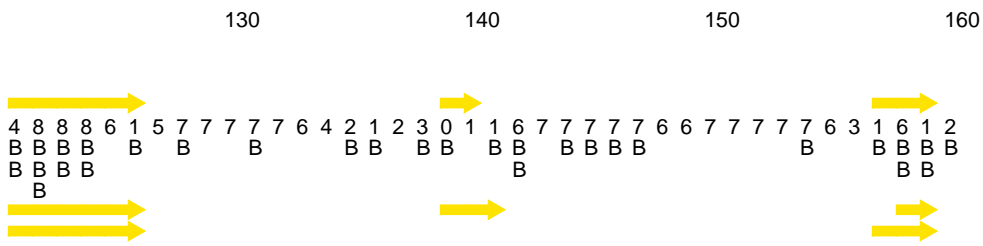
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Diagram illustrating a 40-bit bus system with 16 processors. The bus is divided into four 10-bit segments. Processors are numbered 0 to 15. Processors 0-9 are connected to the first segment, 10-19 to the second, 20-29 to the third, and 30-39 to the fourth. Each segment has a yellow arrow pointing right, indicating data flow. The processors are labeled with their IDs and the bus segments they are connected to.

[illegible]

[illegible]

lupas_21
lupas_14
lupas_28
jnet
conf
sol25
sol5
sol0
jhmm
jpssm



[illegible]

lupas_21
lupas_14
lupas_28
jnet
conf
sol25
sol5
sol0
jhmm
jpssm