

LO1

LO2

LO3 /

LO4

LO5

LO6

LO7

LO8

LO9

LO10

LO11

LO12

1

2

OD

3

4

5

TransCAD

GIS CAD

(HintCAD)

ANASYS

Midas

1

2

4

3~6

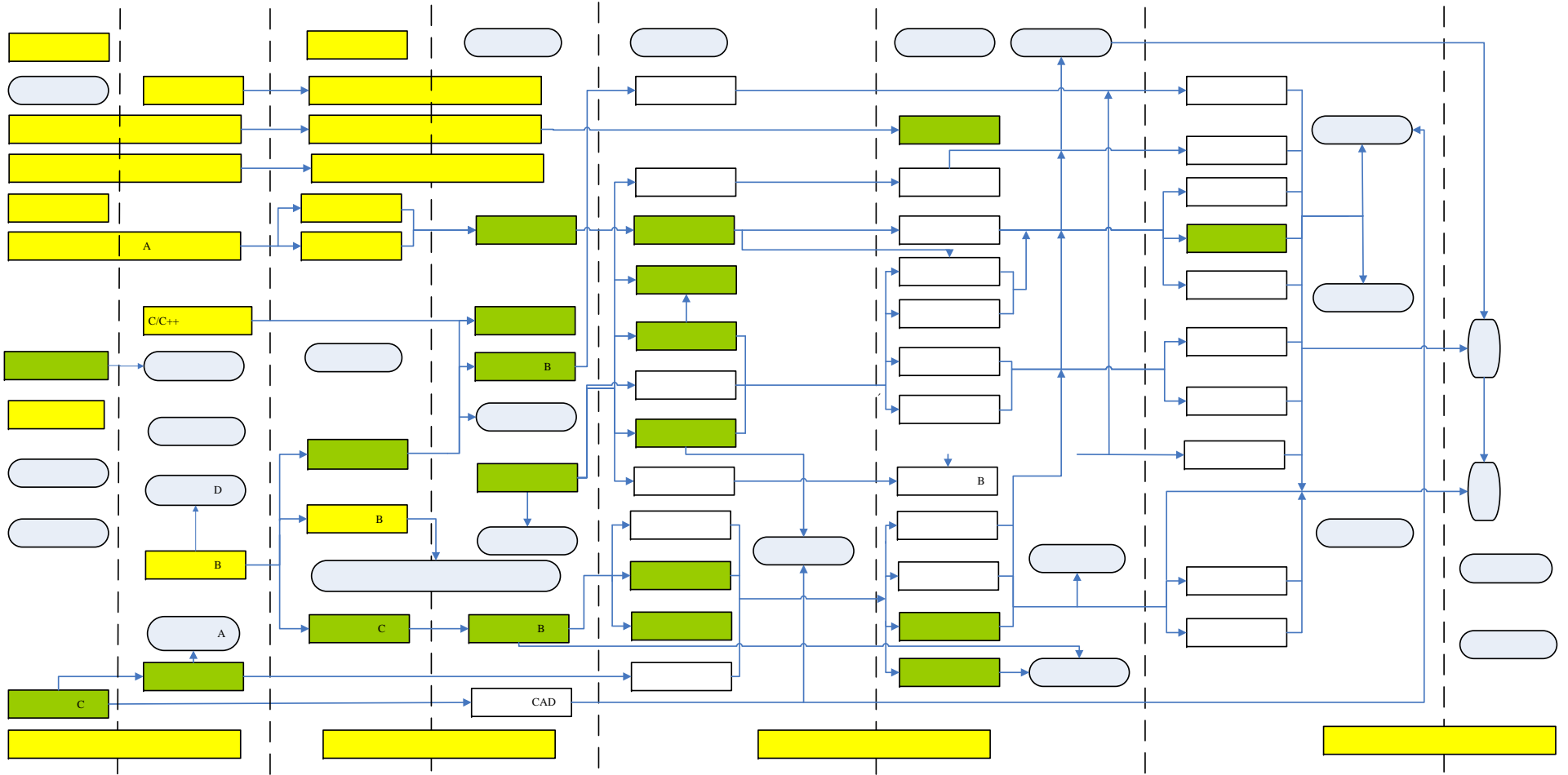
| | | | | | | | |
|-----|-----|-----|------|-----|-----|-----|-----|
| | | | 32 | | 40 | 2.5 | |
| | 40 | 2.5 | | 40 | 2.5 | | 24 |
| 1.5 | | | 40 | 2.5 | | 32 | 2 |
| | | 56 | 3.5 | | 48 | 3 | |
| | 32 | 2 | | 32 | 2 | CAD | 24 |
| 1.5 | | | 24 | 1.5 | | 1.5 | |
| | 32 | 2 | | 1.5 | | | |
| | | | 46.5 | | 2 | | 1.5 |
| | | | | 2 | | | 2 |
| | CAD | 1.5 | | 2 | | | 3 |
| | 2 | | | 2 | | B | 1.5 |
| | | 1.5 | | 1.5 | | | 1.5 |
| | | 1.5 | | | 2 | | |
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| | 2 | | | 1.5 | | | 1.5 |
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1.

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190

149.5

40.5

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3.

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11

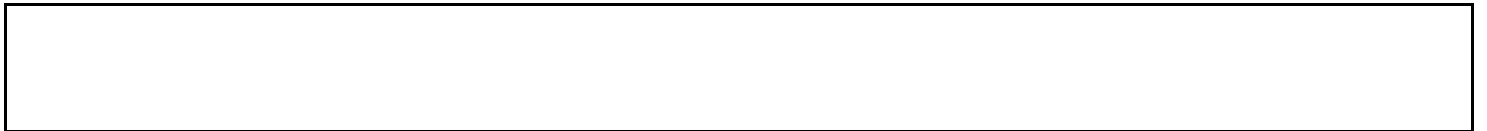
12

| 1201111B | | | | | | | | | | | | | | | | | | | |
|----------|--|---|------|------|--|------|----|---|------|------|------|-----|-----|-----|-----|-----|------|--|--|
| 1201121B | | | | | | | | | | | | | | | | | | | |
| 1201131B | | | | | | | | | | | | | | | | | | | |
| 1201141B | | O | (128 | (64) | | (64) | 2 | | 0.25 | 0.25 | 0.25 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 1-17 | | |
| 1201151B | | |) | | | | | | | | | 5 | 5 | 5 | 5 | 5 | | | |
| 1201161B | | | | | | | | | | | | | | | | | | | |
| 1201171B | | | | | | | | | | | | | | | | | | | |
| 1201181B | | | | | | | | | | | | | | | | | | | |
| 1500011B | | | | | | | | | | | | | | | | | | | |
| 1500021B | | | | | | | | | | | | | | | | | | | |
| 1500031B | | | 176 | 160 | | 16 | 10 | 1 | 2.5 | 2.5 | 2.5 | 2.5 | | | | | 1-17 | | |
| 1500041B | | | | | | | | | | | | | | | | | | | |
| 5100041B | | | | | | 256 | | | | | | | | | | | | | |
| 5100051B | | | | | | (| | | | | | | | | | | | | |
| 5100061B | | | 144 | 144 | | | 2 | 1 | 0.5 | 0.5 | 0.5 | 0.5 | | | | | 1-16 | | |
| 5100071B | | | | | |) | | | | | | | | | | | | | |

1200141B

1200151B

| | | | | | | | | | | | | | | | | | | |
|----------------------|-----------|---|------|-----|---|----|-----|-----|-----|-------|-------|-------|------|------|------|------|------|------|
| 1200081B | | | 40 | 32 | | | 8 | 2 | 0.5 | | | 2 | | | | | | 1-16 |
| 1200051B | | | 48 | 32 | | | 16 | 2 | 1 | 2 | | | | | | | | 1-17 |
| 5200011B | | O | 32 | 24 | | | 8 | 1.5 | | 1.5 | | | | | | | | 1-8 |
| 5200021B | | | 32 | 24 | | | 8 | 1.5 | | 1.5 | | | | | | | | 9-17 |
| 1400211B 1400221B | A | | | | | | | | | | | | | | | | | 1-17 |
| 1000231B 1000241B | B | | | | | | | | | | | | | | | | | 1-16 |
| 1400071B | | | | | | | | | | | | | | | | | | 1-16 |
| 1400091B | | | | | | | | | | | | | | | | | | 1-17 |
| 0500101B | C/C+ + | | 48 | 24 | | 24 | | 3 | | | 3 | | | | | | | 1-16 |
| | | | 0 | | | | | 0 | | | | | | | | | | |
| | | | 1052 | 920 | 4 | 24 | 104 | 54 | 6.5 | 14.25 | 17.25 | 16.75 | 4.75 | 0.25 | 0.25 | 0.25 | 0.25 | |



| | | | | | | | | | | | | | | | | | | |
|----------|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|------|
| | | | | | | | | | | | | | | | | | | |
| 0700032B | | | | | | | | | | | | | | | | | | 1-17 |
| 0700052B | | | | | | | | | | | | | | | | | | 1-17 |
| | | | | | | | | | | | | | | | | | | 1-8 |
| 0200051B | | | | | | | | | | | | | | | | | | 1-17 |
| | | | | | | | | | | | | | | | | | | 1-15 |
| | | | | | | | | | | | | | | | | | | 1-10 |
| 0400152B | | | | | | | | | | | | | | | | | | 1-17 |

| 5700013B | | O | 0.5 | | | 0 | | | | | | | | 1-3 |
|--|---|---|-----|----|----|-----|---|---|---|---|-----|---|----|-------|
| 5200023B | | O | 2 | | | 2 | 2 | | | | | | | 1-4 |
| 5700023B 5700033B 5700043B 5700053B 5700063B 5700073B 5700083B 5700093B | | O | 1 | | | 0 | | | | | | | | |
| 5600013B | | O | 8 | | | 0.5 | | | | | 0.5 | | | 9-16 |
| 1710013B | | O | 4 | | | 4 | | | | | | | 4 | 1-6 |
| 1000013B 1000023B | | O | | 48 | | 2 | | | | | | | | 9-16 |
| 5300053B | | O | 1 | | | 1 | | | 1 | | | | | 9-16 |
| 5300043B | D | O | 1 | | | 1 | | 1 | | | | | | |
| 0700013B | A | O | 2 | | | 2 | | 2 | | | | | | 15-17 |
| 1717143B | | O | 2 | | | 2 | | | 2 | | | | | 19-20 |
| 1717253B | | O | 2 | | | 2 | | | | 2 | | | | 21-22 |
| 1717343B | | O | 2 | | | 2 | | | | | 2 | | | 19-20 |
| 1717443B | | O | 1 | | | 1 | | | | | 1 | | | 9-12 |
| 1717553B | | O | 2 | | 30 | 2 | | | | | | 2 | | 9-15 |
| 1717643B | | O | 2 | | | 2 | | | | | | 2 | | 9-15 |
| 1717743B | | O | 2 | | | 2 | | | | | | | 2 | 1-4 |
| 1717843B | | O | 14 | | | 14 | | | | | | | 14 | 1-14 |
| 1717943B | | O | 1 | | | 1 | | 1 | | | | | | 19-20 |

| | | | 948 | 60.5 | 15.75 | 18.75 | 18.75 | 6.25 | 0.25 | 0.25 | 0.25 | 0.25 | 32% |
|--|--|--|------|------|-------|-------|-------|-------|-------|-------|-------|-------|------|
| | | | 144 | 9 | | | 1 | 2 | 2 | 3 | 1 | | 5% |
| | | | 800 | 50.5 | 3.5 | 3 | 5.5 | 14.5 | 14.5 | 8 | 1.5 | 0 | 27% |
| | | | 384 | 23.5 | 0 | 0 | 0 | 0 | 7 | 9 | 7.5 | 0 | 12% |
| | | | 96 | 6 | 2 | | | 0 | 0 | 2 | 2 | | 3% |
| | | | 39.5 | 40.5 | 2 | 4 | 1 | 4 | 2 | 3.5 | 4 | 20 | 21% |
| | | | 2372 | 190 | 23.25 | 25.75 | 26.25 | 26.75 | 25.75 | 25.75 | 16.25 | 20.25 | 100% |
| | | | 190 | | | | | | | | | | |