local elements

remote elements

fluid L2

halo L2

82

99

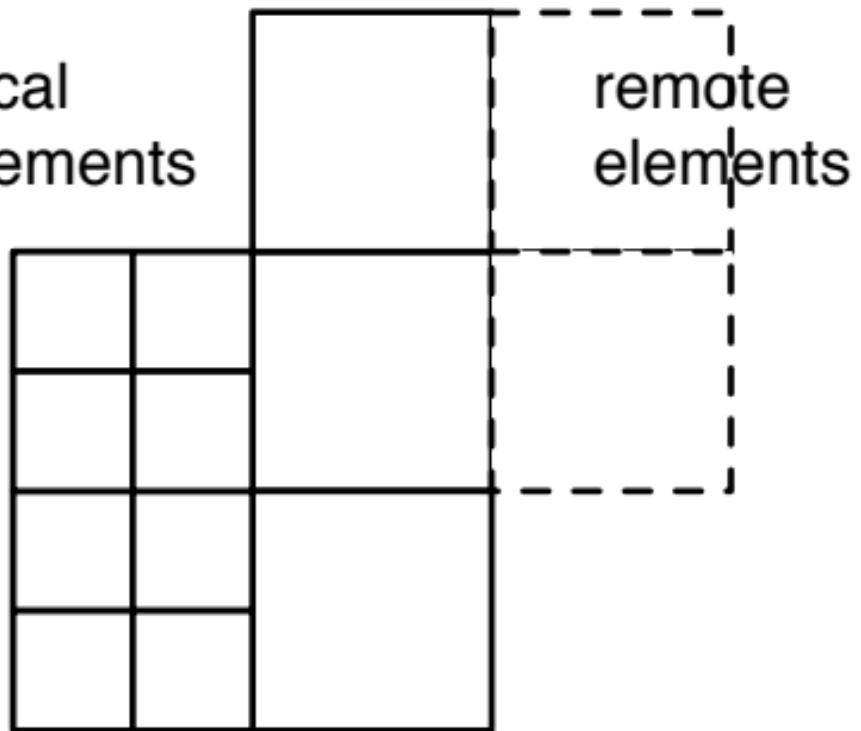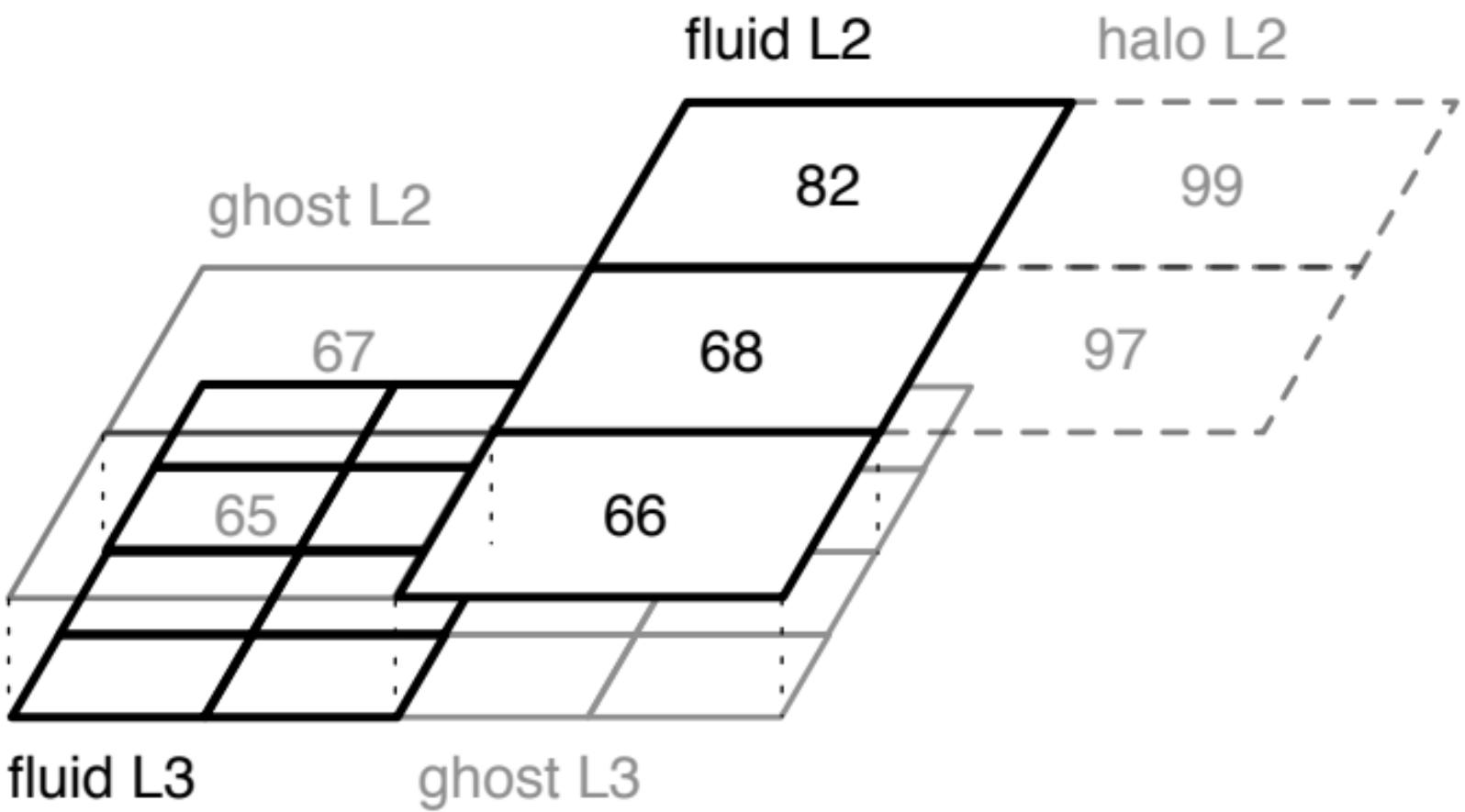ghost L2

67

68

97

65

66

fluid L3

ghost L3

sample 2d mesh

illustrated ghost and halo elements for sample mesh