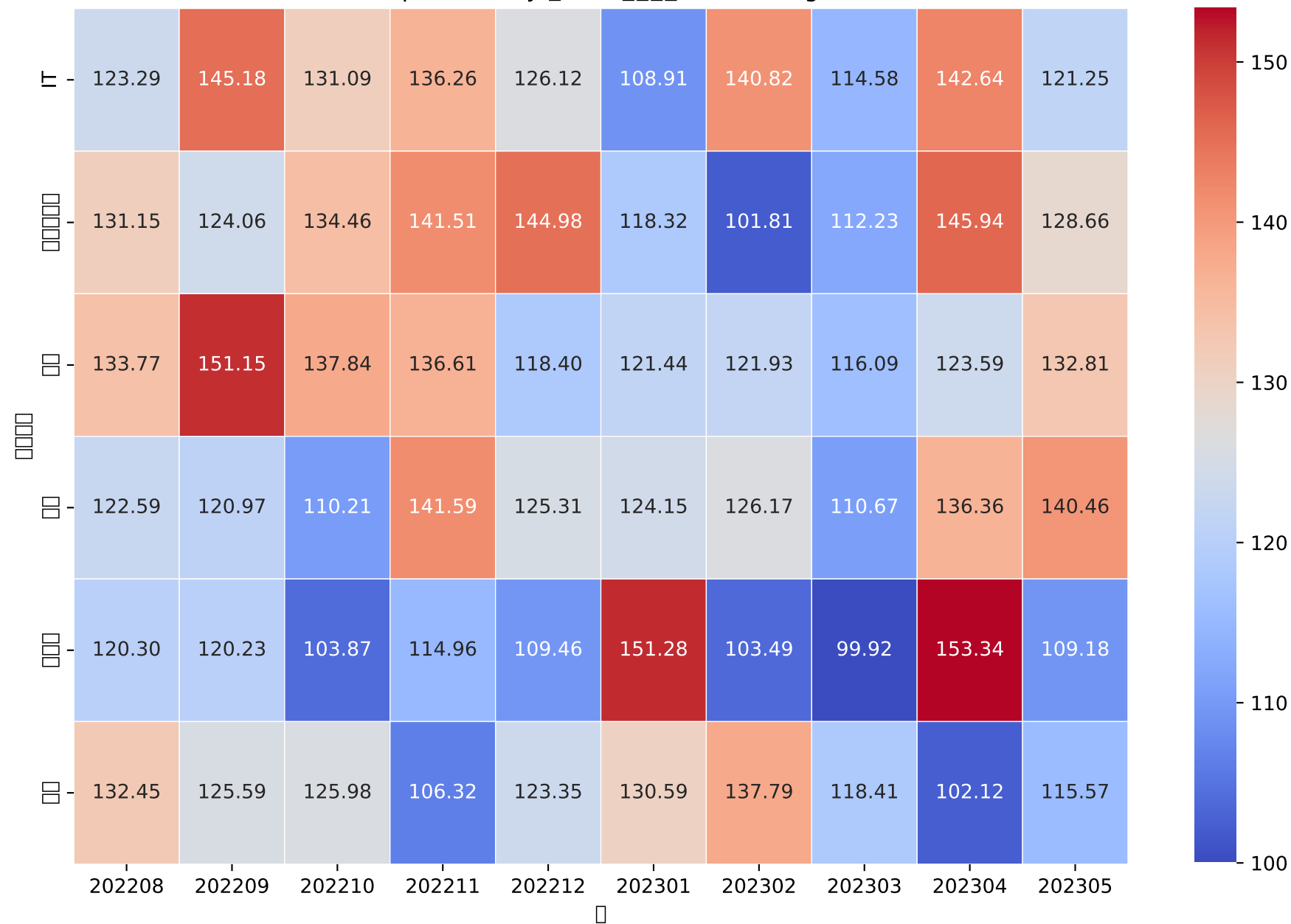


Heatmap of OAS by and in GE using mean



Heatmap of OAS by  $\beta$  and  $\beta\beta\beta$  in US using mean

Heatmap of OAS by  $\varphi$  and  $\varphi_{\text{max}}$  in UK using mean

Heatmap of OAS by  $\alpha$  and  $\beta$  in AUD using mean