

BREAKING GLOBAL BUSINESS BARRIERS

Real-time translation plays an increasingly important role in the growth of global e-commerce. The Alibaba Group services 8.3 billion translation requests daily, enabling international business trade for small to medium-sized enterprises. Alibaba uses neural machine translation (NMT) to fill the gap between machine and human translation, which improves the translation quality significantly, but drives up latency and computation cost. To remedy this, Alibaba deployed NVIDIA Tesla GPUs to accelerate online NMT-based services, achieving a 3X increase in number of requests serviced, and cutting latency by a factor of three.

The screenshot shows the Alibaba Trade Tool interface. At the top, the Alibaba logo and "Trade Tool" are visible, along with navigation links for "Logistics", "Inspector", and "Translate". The breadcrumb trail reads "Home > Tools Home > AliTranslate Service". The interface features two dropdown menus for language selection, currently set to "English" and "Chinese", with a double-headed arrow between them. A green "Translate" button is positioned between the dropdowns, and a "Human Translation" button is to its right. The main content area is split into two panels. The left panel displays the original English text: "Good afternoon! I'm looking forward to hosting your upcoming visit to our office here in California. Have all your travel arrangements been made? Please let me know if there are any travel details I can help with. Best regards, Shelley Hamilton". The right panel displays the translated Chinese text: "您好! 我期待着托管您访问我们的办公室在加利福尼亚州。有你所有的旅行安排了吗?请让我知道如果有任何行程细节,我可以帮忙。最好的问候, Shelley Hamilton".

The screenshot shows the Alibaba Trade Tool interface with the language settings swapped. The breadcrumb trail remains "Home > Tools Home > AliTranslate Service". The dropdown menus are now set to "Chinese" and "English". The "Translate" button is still present. The main content area is split into two panels. The left panel displays the original Chinese text: "嗨謝莉, 谢谢您的帮助,我们所有的旅行都安排好了。我们期待着您下周。真诚的, 汪秀英". The right panel displays the translated English text: "Hi Shelley, Thank you for your offer to help. All of our travel arrangements have been made. We look forward to you next week. Sincerely, Wang Xiuying".