

Planning disk storage - Part 1

Fabio Massimo Ottaviani

June 2021

1 Introduction

The capacity planning methodology for disk storage is conceptually about the same as for other resources such as CPU, zIIP, etc.

The basic steps are:

- 1) define the “horizon” of the CP study,
- 2) estimate current machine capacity,
- 3) evaluate the baseline,
- 4) estimate natural and planned growth,
- 5) forecast future needs,
- 6) estimate the additional capacity needed in Disaster Recovery scenarios.

Steps 1, 2 and 6 are very customer dependent, so they will not be covered in this paper.

After a short discussion about which input measurements are most relevant and what you must care about when collecting them in a performance database, we will focus on steps 3, 4, and 5 which are the “core” topics of the methodology.

All the graphs and report in this paper refer to a real capacity planning study.

All the system, sysplex and storage group names have been changed so as not to disclose any customer information.