Dynamic I/O Model Selection With Machine Learning

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Abstract—In a typical database and file system, using asycnchronous I/O is generally a good way to optimize processing efficiency. However, asynchronous I/O may not a more efficient way in all situations. In this work, we use Machine Learning(ML) techniques to learn I/O model's performance, and set up a client/server system to recommend the more efficient I/O model under different system loads. The experimental result shows that our system has a 15% performance imporvment compared to using asynchronous I/O alone.

Keywords—asynchronous I/O, synchronous I/O, Machine Learning, performance prediction

I. INTRODUCTION

II. DESIGN

A. Maintaining the Integrity of the Specifications

III. IMPLEMENTATION

- A. Abbreviations and Acronyms
- B. Units
 - Use
 - Avoid.
 - Do
 - Use
- C. Equations

$$a + b = \gamma \tag{1}$$

- D. Figures and Tables
- a) Positioning Figures and Tables: Place figures and tables at the top and

TABLE I TABLE TYPE STYLES

Table			
Head	Table column subhead	Subhead	Subhead
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^aSample of a Table footnote.

Fig. 1. Example of a figure caption.

IV. EVALUATION
V. RELATED WORK
VI. CONCLUSION
ACKNOWLEDGMENT
REFERENCES
REFERENCES

 G. Eason, B. Noble, and I. N. Sneddon, "On certain integrals of Lipschitz-Hankel type involving products of Bessel functions," Phil. Trans. Roy. Soc. London, vol. A247, pp. 529–551, April 1955.

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